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STATE GEOLOGICAL

CALIFORNIA MINES AND MINERALS

BULLETIN No. 44

COMPLIMENTS OF
LEWIS E. AUBURY
STATE MINERALOGIST.

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State Mineralogist

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ILLINOIS STATE GEOLOGICAL SURVEY

487

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FERRY BUILDING, SAN FRANCISCO, ONE HALF THE UPPER FLOOR OF WHICH IS OCCUPIED BY THE STATE MINING BUREAU.
(This building is constructed of Colusa Sandstone and the reconstructed tower is of reinforced concrete.)

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CALIFORNIA MINES AND MINERALS

Compiled by CHAS. G. YALE, Statistician State Mining Bureau.

THE mining interests of the State of California are so diversified, and the industry is extended over so wide an area, that it is difficult to describe the conditions which exist without using many pages of printed matter. For this reason it has been considered proper, in this pamphlet, to give merely a record of results, which will show in plain figures what is being accomplished by the miners of the State. This record shows that some forty mineral substances are being exploited, the annual valuation of which is now $43,069,227, and increasing as capital is invested and more mines are opened. The older mines, too, having been well developed and equipped, are increasing their annual output, and thus also proving their permanency and value with depth. For the past 19 years the total mineral output of California amounts to $505,699,408.

The climatic conditions are favorable to mining operations throughout the State, and means of transportation have been so improved as to greatly lessen costs of supplies, etc. There are abundant opportunities for the safe and profitable investment of capital in the various branches of the industry, as numerous claims which have been located have never been properly developed or equipped, their owners lacking the necessary means.

The State Mining Bureau, maintained by State aid, provides numerous publications in the form of Bulletins or Reports, giving in detail the conditions existing in gold, copper, quicksilver, and all the various branches of mining. It also publishes maps of the counties which show the location of all mines, roads, streams, etc. The Bureau is in charge of a State Mineralogist, who has a corps of trained Field Assistants, and an office force as well. There is a fine technical library, and a very large museum showing specimens of all mineral products, suitably arranged for reference. There is also a well-equipped laboratory for the determination of minerals.

The Bureau publishes, among other things, an annual Statistical Bulletin showing by counties the output and value of all substances mined or quarried in California. From the latest bulletin of this character, covering the calendar year 1905, the figures and tables given in this pamphlet are taken, in the belief that they will give, perhaps, the best idea of what the mines of the State are producing and what the miners are accomplishing.

TOTAL MINERAL PRODUCT OF CALIFORNIA FOR 1905.

The following table shows the yield and value of mineral substances of California for 1905, as per returns received at the State Mining Bureau, San Francisco, in answer to inquiries sent to producers:

	Quantity.	Value.
Asbestos	112 tons	$2,625
Asphalt	40,304 "	285,290
Bituminous Rock	24,753 "	60,436
Borax	46,334 "	1.019,158
Cement	1,265,553 bbls.	1,791,916
Chrome	40 tons	600
Clays (Brick)	286,618 M	2,273,786
Clays (Pottery)	133,805 tons	130,146
Coal	46,500 "	144,500
Copper	16,997,489 lbs.	2,650,605
Fuller's Earth	1,344 tons	38,000
Gems	-------	148,500
Glass Sand	9,257 "	8,121
Gold	-------	19,197,043
Granite	228,788 cu. ft.	353,837
Gypsum	12,850 tons	54,500
Infusorial Earth	3,000 "	15,000
Lead	533,680 lbs.	25,083
Lime	616,995 bbls.	555,322
Limestone	192,749 tons	323,325
Lithia Mica	25 "	276
Macadam	1,440,455 tons	$942,503
Magnesite (Crude)	3,933 "	16,221
Marble	73,303 cu. ft.	129,450
Mineral Paint	754 tons	4,025
Mineral Water	2,194,150 gals.	538,700
Natural Gas	148,345 M cu. ft.	102,479
Paving Blocks	3,408 M	134,347
Petroleum	34,275,701 bbls.	9,007,820
Platinum	200 oz.	3,320
Pyrites	15,503 tons	63,958
Quicksilver	24,655 flasks	886,081
Rubble	1,183,802 tons	774,267
Salt	77,118 "	141,925
Sandstone	302,813 cu. ft.	483,268
Silver	-------	678,494
Slate	4,000 squares	40,000
Soapstone	300 tons	3,000
Soda	15,000 "	22,500
Tungsten	52 "	18,800
Total value		$43,069,227

The principal increases to be noted for 1905 over the previous year are $87,443 in the gold; $690,011 in petroleum; $252,109 in cement; $327,240 in clays for brick and pottery; $320,348 in borax; $236,118 in limestone; $41,754 in mineral waters; $19,813 in lead; and $12,500 in gems. The largest increase is seen to be in the value of the petroleum.

The total value of the metallic substances (including precious metals) for 1905 was $23,523,984, which includes gold, silver, pyrites, quicksilver, copper, lead, manganese, platinum, chrome and tungsten. The silver is given in commercial value. Tungsten appears in the column for the first time, and there is a notable increase in the amount of platinum saved.

The value of non-metallic substances was $2,145,930, including borax, salt, mineral waters, soda, asbestos, coal, fuller's earth, gypsum, infusorial earth, lithia mica, magnesite, mineral paint, and gems.

The total value of hydrocarbons and gases was $9,456,025. The hydrocarbons include asphalt, bituminous rock, natural gas, and petroleum. In 1904 the product of petroleum in the State was 29,736,003 barrels, worth $8,317,809. In 1905 it was 34,275,701 barrels, valued at $9,007,820. The increase in output for the year is thus shown to be 4,539,698 barrels, and in value $690,011.

In structural materials the total value for the year was $7,943,288, an increase over 1904 of $668,442. These materials include lime and limestone, macadam, glass sand, marble, granite, sandstone, paving blocks, rubble, slate, soapstone, brick and pottery clays, and cement. In the latter substance the increase in the output for the year amounted to 296,015 barrels, the number made in 1905 being 1,265,553 barrels.

The relative value of the principal mineral products of the State is as follows: 1st, Gold; 2d, Petroleum; 3d, Copper; 4th, Clays and their products; 5th, Cement; 6th, Borax; 7th, Macadam; 8th, Quicksilver; and 9th, Rubble.

While gold is still the leading mining product, its yield no longer puts the greatest gold-producing county in the first place. The petroleum of Kern County, together with its other mineral products, gives it the leading place as a mineral-producing county. Yet the highest value of any single product in any county was that of gold in Nevada County, $3,179,715. Gold is more widely distributed than any other substance thus far mined in California; 35 counties out of the 57 in the State showing a gold yield in 1905, and it is known to exist in several others. The order in rank of the counties of the State, in the production of gold alone, is at present as follows:

COUNTY RANK IN GOLD PRODUCT IN 1905.

1. Nevada	$3,179,715	13. San Bernardino	$473,893	25. Riverside	$35,690
2. Butte	2,607,500	14. Mariposa	386,380	26. Los Angeles	15,035
3. Amador	2,445,815	15. El Dorado	384,735	27. Del Norte	10,590
4. Calaveras	1,736,816	16. Yuba	324,135	28. Monterey	4,000
5. Tuolumne	1,291,726	17. Mono	308,884	29. Tulare	2,300
6. Kern	1,160,971	18. Plumas	283,810	30. Ventura	1,200
7. Siskiyou	803,035	19. Inyo	135,959	31. Santa Barbara	725
8. Trinity	690,844	20. San Diego	109,712	32. Alpine	575
9. Shasta	684,952	21. Madera	50,867	33. San Luis Obispo	300
10. Sacramento	668,382	22. Stanislaus	50,000	34. Mendocino	40
11. Placer	597,793	23. Humboldt	45,824	Undistributed	147,500
12. Sierra	517,303	24. Fresno	40,037	Total	$19,197,043

TOTAL GOLD PRODUCT OF CALIFORNIA—1848-1905.

The following table shows the total gold yield of California, by years, from the time mining commenced in 1848 to 1905, inclusive:

1848	$245,301	1863	$23,501,736	1878	$18,839,141	1893	$12,422,811
1849	10,151,360	1864	24,071,423	1879	19,626,654	1894	13,923,281
1850	41,273,106	1865	17,930,858	1880	20,030,761	1895	15,334,317
1851	75,938,232	1866	17,123,867	1881	19,223,155	1896	17,181,562
1852	**81,294,700**	1867	18,265,452	1882	17,146,416	1897	15,871,401
1853	67,613,487	1868	17,555,867	1883	24,316,873	1898	15,906,478
1854	69,433,931	1869	18,229,044	1884	13,600,000	1899	15,336,031
1855	55,485,395	1870	17,458,133	1885	12,661,044	1900	15,863,355
1856	57,509,411	1871	17,477,885	1886	14,716,506	1901	16,989,044
1857	43,628,172	1872	15,482,194	1887	13,588,614	1902	16,910,320
1858	46,591,140	1873	15,019,210	1888	12,750,000	1903	16,471,264
1859	45,846,599	1874	17,264,836	1889	11,212,913	1904	19,109,600
1860	44,095,163	1875	16,876,009	1890	12,309,793	1905	19,197,043
1861	41,884,995	1876	15,610,723	1891	12,728,869		
1862	38,854,668	1877	16,501,268	1892	12,571,900	Total	$1,434,053,311

BANNER COUNTIES IN DIFFERENT MINERAL PRODUCTS—1905.

As far as the "banner" counties in the different mineral products are concerned, the following is the record for 1905, with the value of the material in which the county leads. It should be explained, however, that certain substances are put under the heading of "unapportioned," which includes product of single mines, etc., in counties, so as to conceal their identity. For this reason it is necessary to put under this heading, borax, soda, coal, Portland cement,

fuller's earth. magnesite, some gold and silver, and a few other substances formerly credited to certain counties. This causes an apparent, but not real, falling off in output of Lassen, Los Angeles, Napa, San Bernardino, Siskiyou, and a few other counties where these "unapportioned" substances occur. If credited to the exact county, where there is only a single operator, private business would be made public. Under these circumstances, the figures of value of output in some counties do not actually represent their relative rank, as some of the products may be placed under "unapportioned." Moreover, some counties lead in output of some substances placed in the "unapportioned" column, and these substances do not therefore appear after the name of the county, thus reducing the county total.

Alameda County leads in macadam ($441,587) and pyrites ($63,958); Butte in platinum ($1,770); Colusa in sandstone ($276,908); El Dorado in asbestos ($2,625) and slate ($40,000); Inyo in lead ($16,247); Kern in lime ($255,500), petroleum ($3,174,966), and tungsten ($18,800); Lake in mineral waters ($219,500); Los Angeles in asphalt ($119,430), brick clays ($853,810), and gypsum ($43,500); Madera in granite ($123,106); Monterey in glass sand ($8,121); Nevada in gold ($3,179,715); Riverside in rubble ($215,229); San Benito in quicksilver ($279,651); San Diego in lithia mica ($276) and gems ($66,000); San Joaquin in natural gas ($53,915); San Mateo in salt ($67,500); Santa Barbara in infusorial earth ($15,000); Santa Cruz in bituminous rock ($42,500); Shasta in copper ($1,688,614) and silver ($167,548); Solano in limestone ($100,000); Sonoma in paving blocks ($66,785); Stanislaus in mineral paint ($2,125); Tuolumne in marble ($66,000). The unapportioned list includes borax, cement, coal, fuller's earth, magnesite, soapstone and soda; so none of these substances are considered in making up the leading products of the individual counties.

It will be noted that two counties lead in three substances: Kern and Los Angeles; four in two, Alameda, El Dorado, San Diego, and Shasta; sixteen in one, Butte, Colusa, Inyo, Lake, Monterey, Nevada, Riverside, San Benito, San Joaquin, San Mateo, Santa Barbara, Santa Cruz, Solano, Sonoma, Stanislaus, and Tuolumne.

To show the wide distribution of mineral substances in California, an analysis of the statistical table for 1905 published by the State Mining Bureau (Bulletin No. 42) proves that all of the 57 counties of the State, except three, made some mineral product in that year. Gold was mined in 35 counties and is known to exist in several others; silver and brick-clays in 27; rubble in 19; mineral waters in 16; macadam in 13; copper and lime in 12; quicksilver and pottery clays in 11; granite in 10; platinum, sandstone and limestone in 9; petroleum in 7; gems and marble in 5; borax, salt, asphalt, cement, and paving blocks in 4; coal and natural gas in 3; chrome, lead, fuller's earth, gypsum, magnesite, mineral paint, and bituminous rock in 2. The following substances were each produced in one county: Pyrites, tungsten, asbestos, infusorial earth, lithia mica, glass sand, slate, and soapstone.

MINERAL MUSEUM, CALIFORNIA STATE MINING BUREAU.

LIBRARY AND FREE READING-ROOM, CALIFORNIA STATE MINING BUREAU.

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1905.

ASBESTOS.	Quantity.	Value.
El Dorado County	112 tons	$2,625
ASPHALT.		
Kern County	10,586 tons	$105,860
Los Angeles County	23,718 "	119,430
Santa Barbara County	3,000 "	30,000
Ventura County	3,000 "	30,000
Totals	40,304 "	$285,290
BITUMINOUS ROCK.		
Santa Cruz County	17,583 tons	$42,500
San Luis Obispo County	2,533 "	6,344
Unapportioned	4,637 "	11,592
Totals	24,753 "	$60,436
BORAX.		
Unapportioned	46,334 tons	$1,019,158
CHROME.		
Calaveras County	20 tons	$300
Shasta County	20 "	300
Totals	40 "	$600
CEMENT.		
Unapportioned	1,265,553 bbls.	$1,791,916

CLAYS—BRICK. (Includes Common, Pressed, and Fire.)	Quantity.	Value.
Alameda County	12,000 M	$95,500
Butte County	400 "	3,200
Contra Costa County	10,979 "	73,948
Fresno County	9,000 "	60,000
Humboldt County	800 "	7,600
Kern County	750 "	6,000
Kings County	3,400 "	24,000
Los Angeles County	109,563 "	853,810
Marin County	22,877 "	163,585
Mendocino County	635 "	6,470
Merced County	600 "	3,500
Orange County	118 "	11,800
Riverside County	2,838 "	69,195
Sacramento County	18,000 "	135,000
San Diego County	3,910 "	28,350
San Francisco County	32,585 "	310,685
San Joaquin County	11,400 "	68,000
San Luis Obispo County	400 "	3,200
San Mateo County	5,902 "	61,436
Santa Barbara County	4,025 "	34,750
Santa Clara County	28,486 "	204,357
Shasta County	3,500 "	14,000
Sonoma County	500 "	4,000
Tehama County	650 "	5,000

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1905.

CLAYS—BRICK—Continued.	Quantity.	Value.
Tulare County	2,000 M	$16,000
Ventura County	1,300 "	10,400
Totals	286,618 "	$2,273,786

CLAYS—POTTERY.		
Amador County	21,775 tons	$20,000
Calaveras County	40 "	300
Kern County	53 "	54
Los Angeles County	30,533 "	16,066
Orange County	10,554 "	14,581
Placer County	20,000 "	10,000
Riverside County	49,720 "	67,970
Santa Clara County	700 "	1,050
Ventura County	30 "	45
Yuba County	400 "	80
Totals	133,805 "	$130,146

COAL.		
Unapportioned	46,500 tons	$144,500

COPPER.		
Amador County	10,000 lbs.	$1,560
Calaveras County	3,666,810 "	572,022
El Dorado County	160,000 "	24,960
Fresno County	1,440,000 "	224,640

COPPER—Continued.	Quantity.	Value.
Inyo County	151,606 lbs.	$23,649
Mariposa County	12,541 "	1,956
Placer County	367,250 "	57,291
Plumas County	1,006 "	157
S. Bernardino County	52,603 "	8,206
San Diego County	4,808 "	750
Shasta County	10,830,865 "	1,688,614
Unapportioned	300,000 "	46,800
Totals	16,997,489 "	$2,650,605

FULLER'S EARTH.		
Unapportioned	1,334 tons	$38,000

GEMS.	
Calaveras County	$10,000
Riverside County	2,500
San Bernardino County	65,000
San Diego County	66,000
Tulare County	5,000
Total	$148,500

GLASS SAND.		
Monterey County	9,257 tons	$8,121

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1905.

GOLD.	VALUE.
Alpine County	$575
Amador County	2,445,815
Butte County	2,607,500
Calaveras County	1,736,816
Del Norte County	10,590
El Dorado County	384,735
Fresno County	40,037
Humboldt County	45,824
Inyo County	135,959
Kern County	1,160,971
Los Angeles County	15,035
Madera County	50,867
Mariposa County	386,380
Mendocino County	40
Mono County	308,884
Monterey County	4,000
Nevada County	3,179,715
Placer County	597,793
Plumas County	283,810
Riverside County	35,690
Sacramento County	668,382
San Bernardino County	473,893
San Diego County	109,712
San Luis Obispo County	300
Santa Barbara County	725
Shasta County	684,952
Sierra County	$517,303
Siskiyou County	803,035
Stanislaus County	50,000
Trinity County	690,844
Tulare County	2,300
Tuolumne County	1,291,726
Ventura County	1,200
Yuba County	324,135
Unapportioned	147,500
Total	$19,197,043

GRANITE.	QUANTITY.	VALUE.
Madera County	42,316 cu. ft.	$123,106
Nevada County	2,155 " "	2,570
Placer County	87,035 " "	93,967
Riverside County	57,655 " "	92,300
Sacramento County	4,327 " "	1,614
San Bernardino County	7,600 " "	5,330
San Diego County	9,500 " "	10,250
San Luis Obispo County	1,500 " "	6,000
Tulare County	7,000 " "	9,000
Tuolumne County	9,700 " "	9,700
Totals	228,788 " "	$353,837

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1905.

	Quantity.	Value.
GYPSUM.		
Kern County	1,350 tons	$11,000
Los Angeles County	11,500 "	43,500
Totals	12,850 "	$54,500
INFUSORIAL EARTH.		
Santa Barbara County	3,000 tons	$15,000
LEAD.		
Inyo County	345,680 lbs.	$16,247
Unapportioned	188,000 "	8,836
Totals	533,680 "	$25,083
LIME.		
Amador County	1,000 bbls.	$1,500
Contra Costa County	20,244 "	13,925
El Dorado County	9,260 "	6,946
Kern County	279,650 "	255,500
Monterey County	10,000 "	10,000
Placer County	15,533 "	8,737
Riverside County	20,000 "	20,000
San Benito County	15,000 "	15,000
San Bernardino County	17,024 "	14,740
Santa Cruz County	218,084 "	199,974
Shasta County	10,700 "	8,000
Tuolumne County	500 "	1,000
Totals	616,995 "	$555,322

	Quantity.	Value.
LIMESTONE.		
Calaveras County	8,087 tons	$15,430
Contra Costa County	34,800 "	43,500
El Dorado County	1,050 "	5,775
Kern County	5,500 "	44,000
San Bernardino County	27,387 "	51,395
Santa Barbara County	5,000 "	7,500
Santa Cruz County	7,325 "	52,125
Shasta County	3,600 "	3,600
Solano County	100,000 "	100,000
Totals	192,749 "	$323,325
LITHIA MICA.		
San Diego County	25 tons	$276
MACADAM.		
Alameda County	709,723 tons	$441,587
Contra Costa County	77,200 "	61,620
Los Angeles County	25,000 "	22,000
Marin County	93,000 "	32,250
Riverside County	22,199 "	16,639
Sacramento County	60,058 "	20,326
San Benito County	65,000 "	32,500
San Bernardino County	9,000 "	9,000
San Francisco County	82,057 "	79,675
Santa Barbara County	2,200 "	9,600
Santa Cruz County	3,500 "	1,750

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1905.

	Quantity.	Value.
MACADAM—Continued.		
Solano County	102,218 tons	$75,011
Sonoma County	189,300 "	140,545
Totals	1,440,455 "	$942,503
MAGNESITE.		
Unapportioned	3,933 tons	$16,221
MARBLE.		
Amador County	2,703 cu. ft.	$3,950
Inyo County	17,000 " "	17,000
Riverside County	2,500 " "	2,500
San Bernardino County	40,100 " "	40,000
Tuolumne County	11,000 " "	66,000
Totals	73,303 " "	$129,450
MINERAL PAINT.		
Calaveras County	379 tons	$1,900
Stanislaus County	375 "	2,125
Totals	754 "	$4,025
MINERAL WATER.		
Butte County	15,000 gals.	$1,500
Lake County	489,000 "	219,500
Los Angeles County	175,000 "	31,250
Mendocino County	90,000 "	18,000
Monterey County	5,000 "	1,000

	Quantity.	Value.
MINERAL WATER—Continued.		
Napa County	279,400 gals.	$89,500
San Benito County	500 "	500
Santa Barbara County	115,250 "	21,450
Santa Clara County	5,000 "	1,200
Shasta County	80,000 "	12,000
Solano County	10,000 "	4,000
Sonoma County	10,000 "	4,000
Tehama County	8,000 "	4,000
Yuba County	2,000 "	800
Unapportioned	910,000 "	130,000
Totals	2,194,150 "	$538,700
NATURAL GAS.		
Sacramento County	43,564 M cu. ft.	$43,564
San Joaquin County	100,950 " " "	53,915
Ventura County	3,831 " " "	5,000
Totals	148,345 " " "	$102,479
PAVING BLOCKS.		
Riverside County	600 M	$36,000
San Bernardino County	550 "	28,000
Solano County	113 "	3,562
Sonoma County	2,145 "	66,785
Totals	3,408 "	$134,347

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1905.

PETROLEUM.	Quantity.	Value.
Fresno County	8,890,000 bbls.	$2,400,300
Kern County	17,069,715 "	3,174,966
Los Angeles County	2,854,564 "	1,056,188
Orange County	1,510,900 "	711,633
Santa Barbara Co.	3,534,000 "	1,413,600
Santa Clara County	41,000 "	14,555
Ventura County	375,522 "	236,578
Totals	34,275,701 "	$9,007,820

PLATINUM.		
Butte County	110 oz.	$1,770
Del Norte County	1.5 "	22
Humboldt County	12.5 "	204
Mariposa County	1.5 "	25
Nevada County	1.2 "	20
Placer County	2 "	36
Sacramento County	40 "	700
Siskiyou County	5.3 "	93
Trinity County	26 "	450
Totals	.200 "	$3,320

PYRITES.		
Alameda County	15,503 tons	$63,958

QUICKSILVER.	Quantity.	Value.
Colusa County	326 flasks	$12,321
Kings County	250 "	9,000
Lake County	1,462 "	51,937
Napa County	4,853 "	171,910
San Benito County	7,764 "	279,651
San Luis Obispo Co.	3,733 "	133,748
Santa Barbara County	59 "	2,070
Santa Clara County	2,693 "	95,968
Solano County	542 "	18,518
Sonoma County	2,584 "	97,041
Trinity County	389 "	13,917
Totals	24,655 "	$886,081

RUBBLE.		
Alameda County	11,648 tons	$7,442
Contra Costa County	10,000 "	4,500
Los Angeles County	47,025 "	47,025
Marin County	20,000 "	12,000
Napa County	500 "	500
Placer County	21,910 "	22,779
Riverside County	206,027 "	215,229
Sacramento County	8,040 "	12,060
San Benito County	64,988 "	32,494
San Bernardino County	209,376 "	104,867
San Diego County	36,072 "	16,507

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1905.

RUBBLE—Continued.	Quantity.	Value.
San Francisco County	68,151 tons	$65,682
San Joaquin County	100,000 "	25,000
San Luis Obispo Co.	15,000 "	15,000
San Mateo County	100,000 "	75,000
Santa Barbara County	111,415 "	48,192
Santa Clara County	1,500 "	3,000
Sonoma County	10,000 "	6,500
Ventura County	142,150 "	60,490
Totals	1,183,802 "	$774,267
SALT.		
Alameda County	49,100 tons	$54,200
Colusa County	18 "	225
Los Angeles County	12,000 "	20,000
San Mateo County	16,000 "	67,500
Totals	77,118 "	$141,925
SANDSTONE.		
Colusa County	118,954 cu. ft.	$276,908
Los Angeles County	8,784 " "	9,950
Orange County	500 " "	250
San Luis Obispo County	40,000 " "	25,000
Santa Barbara County	29,600 " "	18,330
Santa Clara County	100,000 " "	150,000
Siskiyou County	2,500 " "	1,250
Ventura County	2,300 cu. ft.	$1,380
Yolo County	175 " "	200
Totals	302,813 " "	$483,268

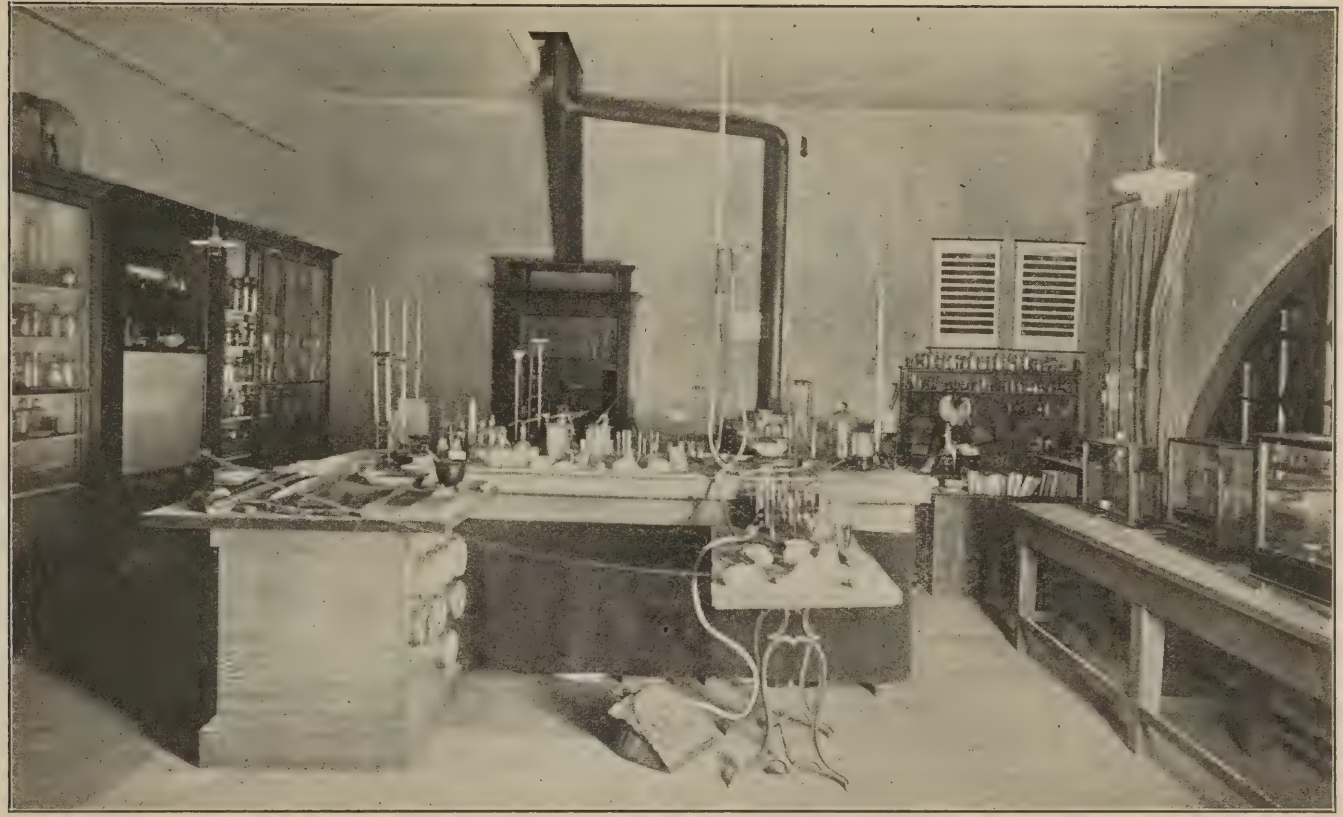
SILVER.	Com. Value.
Amador County	$17,930
Butte County	7,134
Calaveras County	78,859
El Dorado County	2,525
Fresno County	9,187
Inyo County	29,741
Kern County	134,944
Los Angeles County	100
Madera County	10,014
Mariposa County	5,231
Mono County	11,240
Nevada County	32,523
Placer County	8,041
Plumas County	530
Riverside County	346
Sacramento County	206
San Bernardino County	19,595
San Diego County	100
Shasta County	167,548
Sierra County	3,687

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1905.

SILVER—Continued.	Com. Value.
Siskiyou County	$2,499
Stanislaus County	240
Trinity County	3,044
Tulare County	13
Tuolumne County	21,348
Yuba County	369
Unapportioned	111,500
Total	$678,494

SLATE.	Quantity.	Value.
El Dorado County	4,000 squares	$40,000
SOAPSTONE.		
Unapportioned	300 tons	$3,000
SODA.		
Unapportioned	15,000 tons	$22,500
TUNGSTEN.		
Kern County	52 tons	$18,800

DRAUGHTING AND MAP DEPARTMENT, CALIFORNIA STATE MINING BUREAU.



LABORATORY, CALIFORNIA STATE MINING BUREAU.

ASSESSED VALUATION, AREA, AND POPULATION OF CALIFORNIA.*

	Assessed Valuation 1905.	Area, in Square Miles.	Population 1900.
Alameda County	$123,194,155	840	130,197
Alpine County	488,314	575	509
Amador County	5,246,159	568	11,116
Butte County	17,264,551	1,764	17,117
Calaveras County	6,396,945	990	11,200
Colusa County	12,265,412	1,080	7,364
Contra Costa County	23,757,451	750	18,046
Del Norte County	3,273,445	1,546	2,408
El Dorado County	5,085,384	1,891	8,986
Fresno County	40,478,827	5,940	37,862
Glenn County	10,699,157	1,400	5,150
Humboldt County	25,432,466	3,507	27,104
Inyo County	2,886,182	10,224	4,377
Kern County	26,866,207	8,159	16,480
Kings County	8,789,271	1,257	9,871
Lake County	3,534,645	1,332	6,017
Lassen County	5,566,914	4,750	4,511
Los Angeles County	305,302,995	3,957	170,298
Madera County	7,598,854	2,140	6,364
Marin County	14,842,205	516	15,702
Mariposa County	2,121,845	1,580	4,720
Mendocino County	12,652,028	3,460	20,465
Merced County	15,795,518	1,750	9,215
Modoc County	4,494,264	4,097	5,076
Mono County	1,042,450	2,796	2,167
Monterey County	20,009,544	3,450	19,380
Napa County	14,518,884	800	16,451
Nevada County	7,505,103	958	17,789
Orange County	17,023,537	780	19,696
Placer County	$9,766,233	1,484	15,786
Plumas County	4,294,678	2,361	4,657
Riverside County	17,675,017	7,008	17,897
Sacramento County	38,730,665	1,007	45,915
San Benito County	6,722,195	1,476	6,633
San Bernardino County	25,645,830	20,055	27,929
San Diego County	25,804,962	8,400	35,090
San Francisco County	376,138,737	42	342,782
San Joaquin County	39,814,967	1,370	35,452
San Luis Obispo County	15,347,100	3,500	16,637
San Mateo County	19,553,348	470	12,094
Santa Barbara County	20,670,344	2,450	18,934
Santa Clara County	59,484,220	1,355	60,216
Santa Cruz County	13,563,478	425	21,512
Shasta County	13,120,693	4,050	17,318
Sierra County	2,301,521	910	4,017
Siskiyou County	13,180,981	6,078	16,962
Solano County	19,516,209	911	24,143
Sonoma County	31,889,851	1,540	38,480
Stanislaus County	14,612,053	1,486	9,550
Sutter County	6,753,936	611	5,886
Tehama County	12,378,135	3,200	10,996
Trinity County	2,256,667	3,276	4,383
Tulare County	19,555,406	4,935	18,375
Tuolumne County	7,432,200	2,282	11,166
Ventura County	11,080,070	1,850	14,367
Yolo County	17,096,044	1,017	13,618
Yuba County	6,263,659	625	8,620
Totals	$1,594,781,905	156,931	1,485,053

*Report of the State Controller.

COUNTY MINERAL PRODUCTS AND VALUE—1905.

ALAMEDA COUNTY.	Quantity.	Value.
Brick	12,000 M	$95,500
Macadam	709,723 tons	441,587
Pyrites	15,503 tons	63,958
Rubble	11,648 tons	7,442
Salt	49,100 tons	54,200
		$662,687

ALPINE COUNTY.		
Gold	----------	$575

AMADOR COUNTY.		
Clay	21,775 tons	$20,000
Copper	10,000 lbs.	1,560
Gold	----------	2,445,815
Lime	1,000 bbls.	1,500
Marble	2,703 cu. ft.	3,950
Silver	----------	17,930
		$2,490,755

BUTTE COUNTY.		
Brick	400 M	$3,200
Gold	----------	2,607,500
Mineral Water	15,000 gals.	1,500
Platinum	110 oz.	1,770
Silver	----------	7,134
		$2,621,104

CALAVERAS COUNTY.	Quantity.	Value.
Chrome	20 tons	$300
Clay	40 tons	300
Copper	3,666,810 lbs.	572,022
Gems	----------	10,000
Gold	----------	1,736,816
Limestone	3,087 tons	15,430
Mineral Paint	379 tons	1,900
Silver	----------	78,859
		$2,415,627

COLUSA COUNTY.		
Quicksilver	326 flasks	$12,321
Salt	18 tons	225
Sandstone	118,954 cu. ft.	276,908
		$289,454

CONTRA COSTA COUNTY.		
Brick	10,979 M	$73,948
Lime	20,244 bbls.	13,925
Limestone	34,800 tons	43,500
Macadam	77,200 tons	61,620
Rubble	10,000 tons	4,500
		$197,493

COUNTY MINERAL PRODUCTS AND VALUE—1905.

DEL NORTE COUNTY.	QUANTITY.	VALUE.
Gold	----------	$10,590
Platinum	1.5 oz.	22
		$10,612

EL DORADO COUNTY.		
Asbestos	112 tons	$2,625
Copper	160,000 lbs.	24,960
Gold	----------	384,735
Lime	9,260 bbls.	6,946
Limestone	1,050 tons	5,775
Slate	4,000 squares	40,000
Silver	----------	2,525
		$467,566

FRESNO COUNTY.		
Brick	9,000 M	$60,000
Copper	1,440,000 lbs.	224,640
Gold	----------	40,037
Petroleum	8,890,000 bbls.	2,400,300
Silver	----------	9,187
		$2,734,164

HUMBOLDT COUNTY.		
Brick	800 M	$7,600
Gold	----------	45,824
Platinum	12.5 oz.	204
		$53,628

INYO COUNTY.	QUANTITY.	VALUE.
Copper	151,606 lbs.	$23,649
Gold	----------	135,959
Lead	345,680 lbs.	16,247
Marble	17,000 cu. ft.	17,000
Silver	----------	29,741
		$222,596

KERN COUNTY.		
Asphalt	10,586 tons	$105,860
Brick	750 M	6,000
Clay	53 tons	54
Gold	----------	1,160,971
Gypsum	1,350 tons	11,000
Lime	279,650 bbls.	255,500
Limestone	5,500 tons	44,000
Petroleum	17,069,715 bbls.	3,174,966
Silver	----------	134,944
Tungsten	52 tons	18,800
		$4,912,095

KINGS COUNTY.		
Brick	3,400 M	$24,000
Quicksilver	250 flasks	9,000
		$33,000

COUNTY MINERAL PRODUCTS AND VALUE—1905.

LAKE COUNTY.	Quantity.	Value.
Mineral Water	489,000 gals.	$219,500
Quicksilver	1,462 flasks	51,937
		$271,437

LOS ANGELES COUNTY.		
Asphalt	23,718 tons	$119,430
Brick	109,563 M	853,810
Clay	30,533 tons	16,066
Gold	----------	15,035
Gypsum	11,500 tons	43,500
Macadam	25,000 tons	22,000
Mineral Water	175,000 gals.	31,250
Petroleum	2,854,564 bbls.	1,056,188
Rubble	47,025 tons	47,025
Salt	12,000 tons	20,000
Sandstone	8,784 cu. ft.	9,950
Silver	----------	100
		$2,234,354

MADERA COUNTY.		
Gold	----------	$50,867
Granite	42,316 cu. ft.	123,106
Silver	----------	10,014
		$183,987

MARIN COUNTY.	Quantity.	Value.
Brick	22,877 M	$163,585
Macadam	93,000 tons	32,250
Rubble	20,000 tons	12,000
		$207,835

MARIPOSA COUNTY.		
Copper	12,541 lbs.	$1,956
Gold	--------	386,380
Platinum	1.5 oz.	25
Silver	--------	5,231
		$393,592

MENDOCINO COUNTY.		
Brick	635 M	$6,470
Gold	------	40
Mineral Water	90,000 gals.	18,000
		$24,510

MERCED COUNTY.		
Brick	600 M	$3,500

COUNTY MINERAL PRODUCTS AND VALUE—1905.

MONO COUNTY.	QUANTITY.	VALUE.
Gold	---	$308,884
Silver	---	11,240
		$320,124

MONTEREY COUNTY.		
Gold	---	$4,000
Glass Sand	9,257 tons	8,121
Lime	10,000 bbls.	10,000
Mineral Water	5,000 gals.	1,000
		$23,121

NAPA COUNTY.		
Mineral Water	279,400 gals.	$89,500
Quicksilver	4,853 flasks	171,910
Rubble	500 tons	500
		$261,910

NEVADA COUNTY.		
Gold	---	$3,179,715
Granite	2,155 cu. ft.	2,570
Platinum	1.2 oz.	20
Silver	---	32,523
		$3,214,828

ORANGE COUNTY.	QUANTITY.	VALUE.
Brick	118 M	$11,800
Clay	10,554 tons	14,581
Petroleum	1,510,900 bbls.	711,633
Sandstone	500 cu. ft.	250
		$738,264

PLACER COUNTY.		
Clay	20,000 tons	$10,000
Copper	367,250 lbs.	57,291
Gold	---	597,793
Granite	87,035 cu. ft.	93,967
Lime	15,533 bbls.	8,737
Platinum	2 oz.	36
Rubble	21,910 tons	22,779
Silver	---	8,041
		$798,644

PLUMAS COUNTY.		
Copper	1,006 lbs.	$157
Gold	---	283,810
Silver	---	530
		$284,497

COUNTY MINERAL PRODUCTS AND VALUE—1905.

RIVERSIDE COUNTY.	QUANTITY.	VALUE.
Brick	2,838 M	$69,195
Clay	49,720 tons	67,970
Gems	----------	2,500
Gold	----------	35,690
Granite	57,655 cu. ft.	92,300
Lime	20,000 bbls.	20,000
Macadam	22,199 tons	16,639
Marble	2,500 cu. ft.	2,500
Paving Blocks	600 M	36,000
Rubble	206,027 tons	215,229
Silver	----------	346
		$558,369

SACRAMENTO COUNTY.		
Brick	18,000 M	$135,000
Gold	----------	668,382
Granite	4,327 cu. ft.	1,614
Macadam	60,058 tons	20,326
Natural Gas	43,564 M cu. ft.	43,564
Platinum	40 oz.	700
Rubble	8,040 tons	12,060
Silver	----------	206
		$881,852

SAN BENITO COUNTY.	QUANTITY.	VALUE.
Lime	15,000 bbls.	$15,000
Macadam	65,000 tons	32,500
Mineral Water	500 gals.	500
Quicksilver	7,764 flasks	279,651
Rubble	64,988 tons	32,494
		$360,145

SAN DIEGO COUNTY.		
Brick	3,910 M	$28,350
Copper	4,808 lbs.	750
Gems	----------	66,000
Gold	----------	109,712
Granite	9,500 cu. ft.	10,250
Lithia Mica	25 tons	276
Rubble	36,072 tons	16,507
Silver	----------	100
		$231,945

SAN BERNARDINO COUNTY.		
Copper	52,603 lbs.	$8,206
Gems	----------	65,000
Gold	----------	473,893
Granite	7,600 cu. ft.	5,330
Lime	17,024 bbls.	14,740

COUNTY MINERAL PRODUCTS AND VALUE—1905.

SAN BERNANDINO COUNTY—Continued.	Quantity.	Value.
Limestone	27,387 tons	$51,395
Macadam	9,000 tons	9,000
Marble	40,100 cu. ft.	40,000
Paving Blocks	550 M	28,000
Rubble	209,376 tons	104,867
Silver	----------	19,595
		$820,026

SAN FRANCISCO COUNTY.		
Brick	32,585 M	$310,685
Macadam	82,057 tons	79,675
Rubble	68,151 tons	65,682
		$456,042

SAN JOAQUIN COUNTY.		
Brick	11,400 M	$68,000
Natural Gas	100,950 M cu. ft.	53,915
Rubble	100,000 tons	25,000
		$146,915

SAN LUIS OBISPO COUNTY.	Quantity.	Value.
Bituminous Rock	2,533 tons	$6,344
Brick	400 M	3,200
Gold	----------	300
Granite	1,500 cu. ft.	6,000
Quicksilver	3,733 flasks	133,748
Rubble	15,000 tons	15,000
Sandstone	40,000 cu. ft.	25,000
		$189,592

SAN MATEO COUNTY.		
Brick	5,902 M	$61,436
Rubble	100,000 tons	75,000
Salt	16,000 tons	67,500
		$203,936

SANTA BARBARA COUNTY.		
Asphalt	3,000 tons	$30,000
Brick	4,025 M	34,750
Gold	----------	725
Infusorial Earth	3,000 tons	15,000
Limestone	5,000 tons	7,500
Mac dam	2,200 tons	9,600
Mineral Water	115,250 gals.	21,450
Petroleum	3,534,000 bbls.	1,413,600
Quicksilver	59 flasks	2,070
Rubble	111,415 tons	48,192
Sandstone	29,600 cu. ft.	18,330
		$1,601,217

COUNTY MINERAL PRODUCTS AND VALUE—1905.

SANTA CLARA COUNTY.	QUANTITY.	VALUE.
Brick	28,486 M	$204,357
Clay	700 tons	1,050
Mineral Water	5,000 gals.	1,200
Petroleum	41,000 bbls.	14,555
Quicksilver	2,693 flasks	95,968
Rubble	1,500 tons	3,000
Sandstone	100,000 cu. ft.	150,000
		$470,130

SANTA CRUZ COUNTY.		
Bituminous Rock	17,583 tons	$12,500
Lime	218,084 bbls.	199,974
Limestone	7,325 tons	52,125
Macadam	3,500 tons	1,750
		$296,349

SHASTA COUNTY.		
Brick	3,500 M	$14,000
Chrome	20 tons	300
Copper	10,830,865 lbs.	1,688,614
Gold	----------	684,952
Lime	10,700 bbls.	8,000
Limestone	3,600 tons	3,600
Mineral Water	80,000 gals.	12,000
Silver	----------	167,548
		$2,579,014

SIERRA COUNTY.	QUANTITY.	VALUE.
Gold	----------	$517,303
Silver	----------	3,687
		$520,990

SISKIYOU COUNTY.		
Gold	----------	$803,035
Platinum	5.3 oz.	93
Sandstone	2,500 cu. ft.	1,250
Silver	----------	2,499
		$806,877

SOLANO COUNTY.		
Limestone	100,000 tons	$100,000
Macadam	102,218 tons	75,011
Mineral Water	10,000 gals.	4,000
Paving Blocks	113 M	3,562
Quicksilver	542 flasks	18,518
		$201,091

COUNTY MINERAL PRODUCTS AND VALUE—1905.

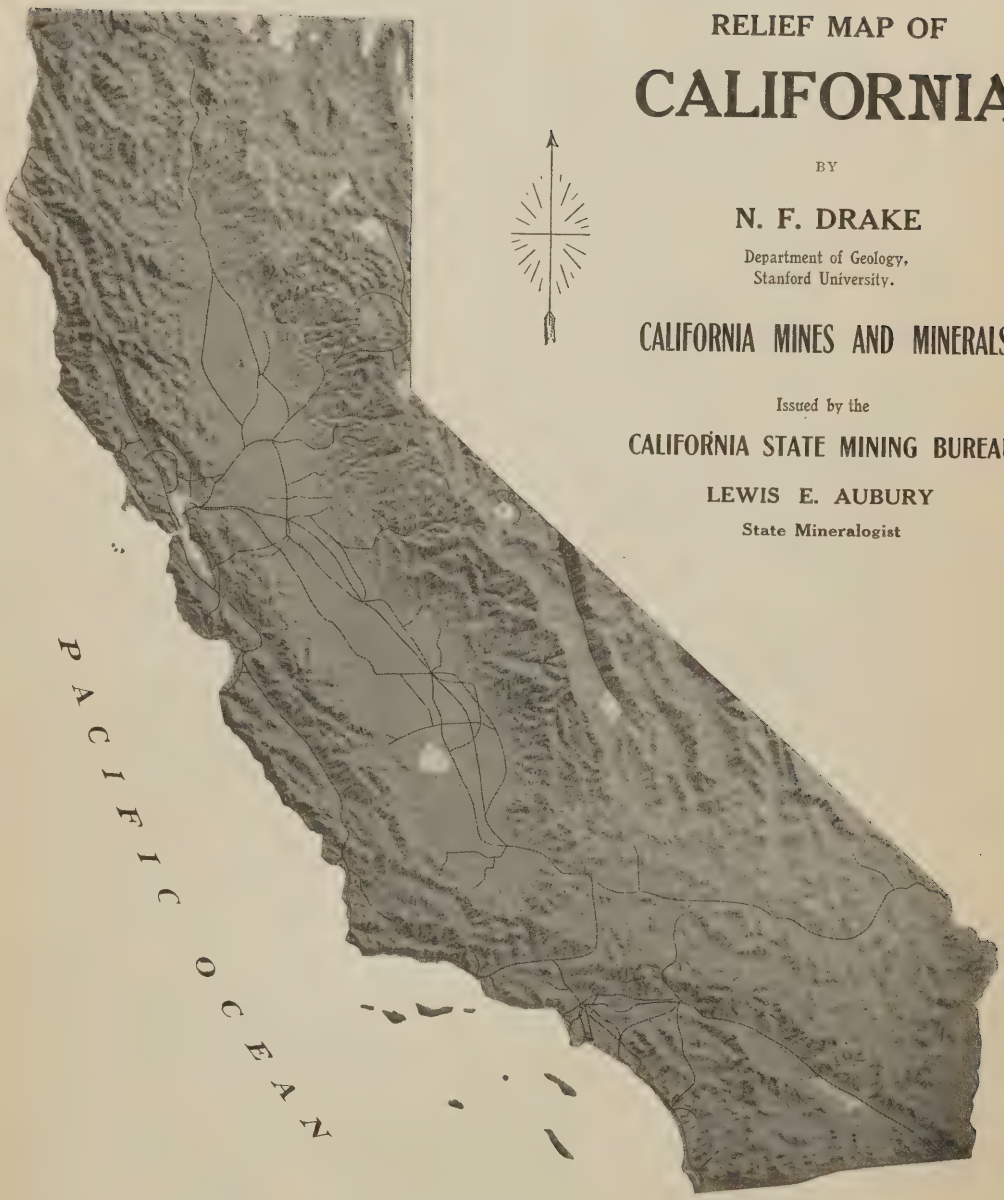
SONOMA COUNTY.	QUANTITY.	VALUE.
Brick	500 M	$4,000
Macadam	189,300 tons	140,545
Mineral Water	10,000 gals.	4,000
Paving Blocks	2,145 M	66,785
Quicksilver	2,584 flasks	97,041
Rubble	10,000 tons	6,500
		$318,871
STANISLAUS COUNTY.		
Gold	----------	$50,000
Mineral Paint	375 tons	2,125
Silver	----------	240
		$52,365
TEHAMA COUNTY.		
Brick	650 M	$5,000
Mineral Water	8,000 gals.	4,000
		$9,000
TRINITY COUNTY.		
Gold	----------	$690,844
Platinum	26 oz.	450
Quicksilver	389 flasks	13,917
Silver	----------	3,044
		$708,255

TULARE COUNTY.	QUANTITY.	VALUE.
Brick	2,000 M	$16,000
Gems	--------	5,000
Gold	--------	2,300
Granite	7,000 cu. ft.	9,000
Silver	--------	13
		$32,313
TUOLUMNE COUNTY.		
Gold	----------	$1,291,726
Granite	9,700 cu. ft.	9,700
Lime	500 bbls.	1,000
Marble	11,000 cu. ft.	66,000
Silver	----------	21,348
		$1,389,774
VENTURA COUNTY.		
Asphalt	3,000 tons	$30,000
Brick	1,300 M	10,400
Clay	30 tons	45
Gold	--------	1,200
Natural Gas	3,831 M cu. ft.	5,000
Petroleum	375,522 bbls.	236,578
Rubble	142,150 tons	60,490
Sandstone	2,300 cu. ft.	1,380
		$345,093

COUNTY MINERAL PRODUCTS AND VALUE—1905.

	Quantity.	Value.
YOLO COUNTY.		
Sandstone	175 cu. ft.	$200
YUBA COUNTY.		
Clay	400 tons	80
Gold	----------	324,135
Mineral Water	2,000 gals.	800
Silver	----------	369
		$325,384
UNAPPORTIONED.		
Bituminous Rock	4,637 tons	$11,592
Borax	46,334 tons	1,019,158
Cement	1,265,553 bbls.	1,791,916
UNAPPORTIONED—Continued.	Quantity.	Value.
Coal	46,500 tons	$144,500
Copper	300,000 lbs.	46,800
Fuller's Earth	1,334 tons	38,000
Gold	----------	147,500
Lead	180,000 lbs.	8,836
Magnesite	3,933 tons	16,221
Mineral Water	910,000 gals.	130,000
Silver	----------	111,500
Soapstone	300 tons	3,000
Soda	15,000 tons	22,500
		$3,491,523

As far as number of mineral substances produced in each of the different counties is concerned, it may be stated that in 1905 Los Angeles County showed a production of 14 different substances; San Bernardino, 13; Kern, Riverside and Santa Barbara, 11 each; Ventura, 9; Calaveras, Sacramento, Placer, San Diego, Santa Clara and Shasta, 8 each; El Dorado and San Luis Obispo, 7 each; Alameda, Amador, Contra Costa, Inyo, Solano, Sonoma and Tulare, 6 each; Butte, Fresno, Monterey, San Benito, Siskiyou, and Tuolumne, 5 each; Colusa, Mariposa, Napa, Nevada, Orange, Santa Cruz, Trinity, and Yuba, 4 each; Humboldt, Kings, Madera, Marin, Mendocino, Plumas, San Francisco, San Joaquin, San Mateo and Stanislaus, 3 each; Lake, Lassen, Mono, Sierra and Tehama, 2 each; Alpine, Merced and Yolo, 1 each. The minerals in the unapportioned list, while not appearing under the county headings, are included in the above enumeration by county.



RELIEF MAP OF
CALIFORNIA

BY

N. F. DRAKE

Department of Geology,
Stanford University.

CALIFORNIA MINES AND MINERALS

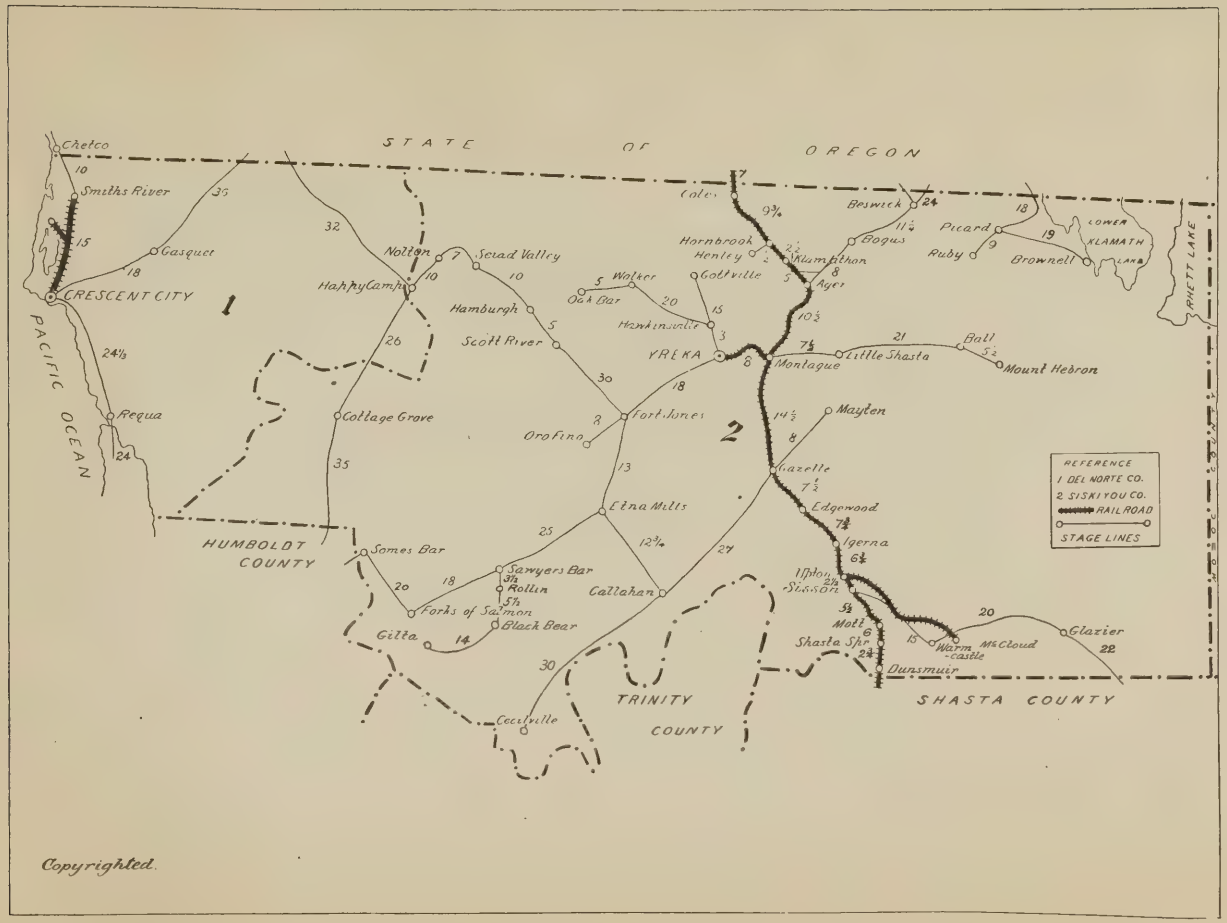
Issued by the

CALIFORNIA STATE MINING BUREAU

LEWIS E. AUBURY

State Mineralogist

DEL NORTE AND SISKIYOU COUNTIES.



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The County Maps.

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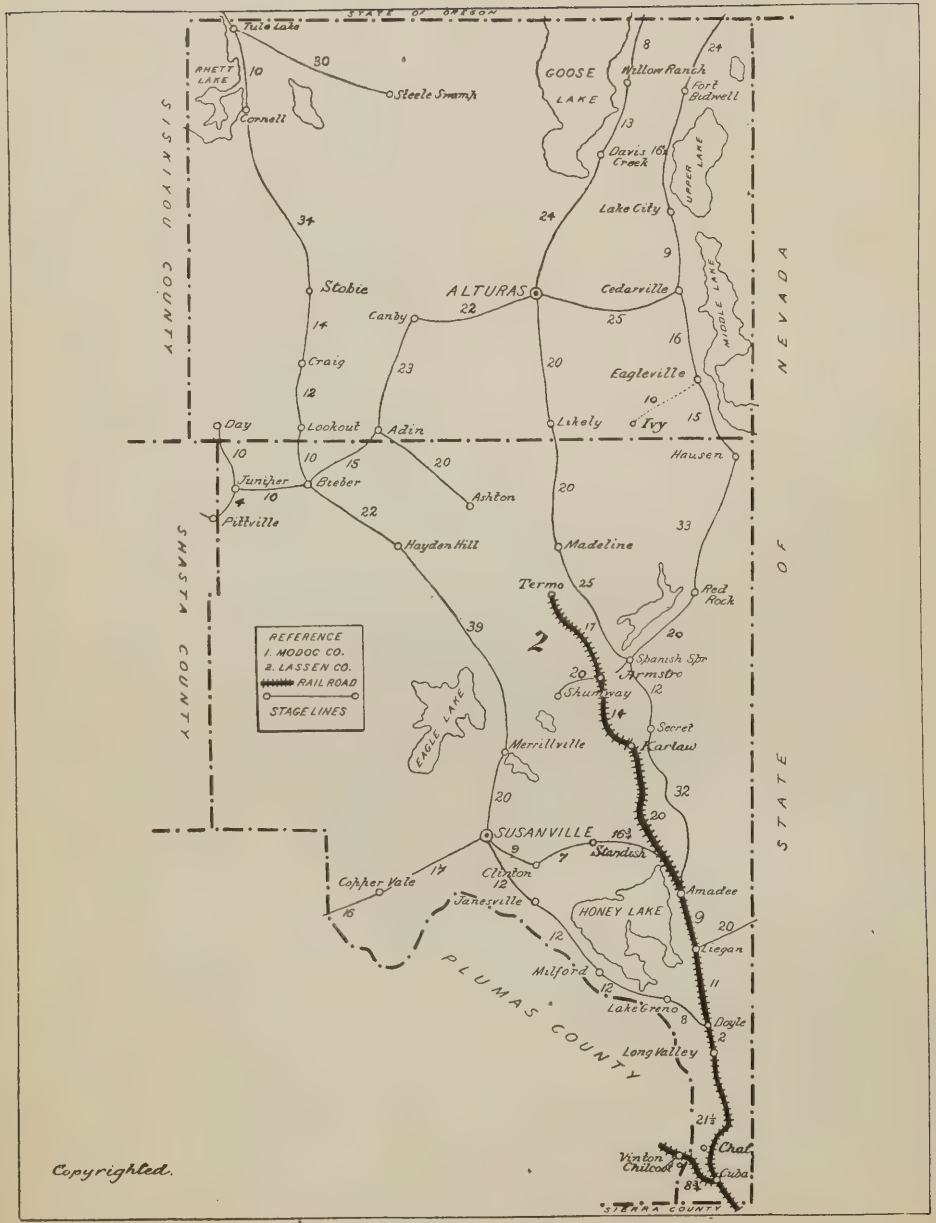
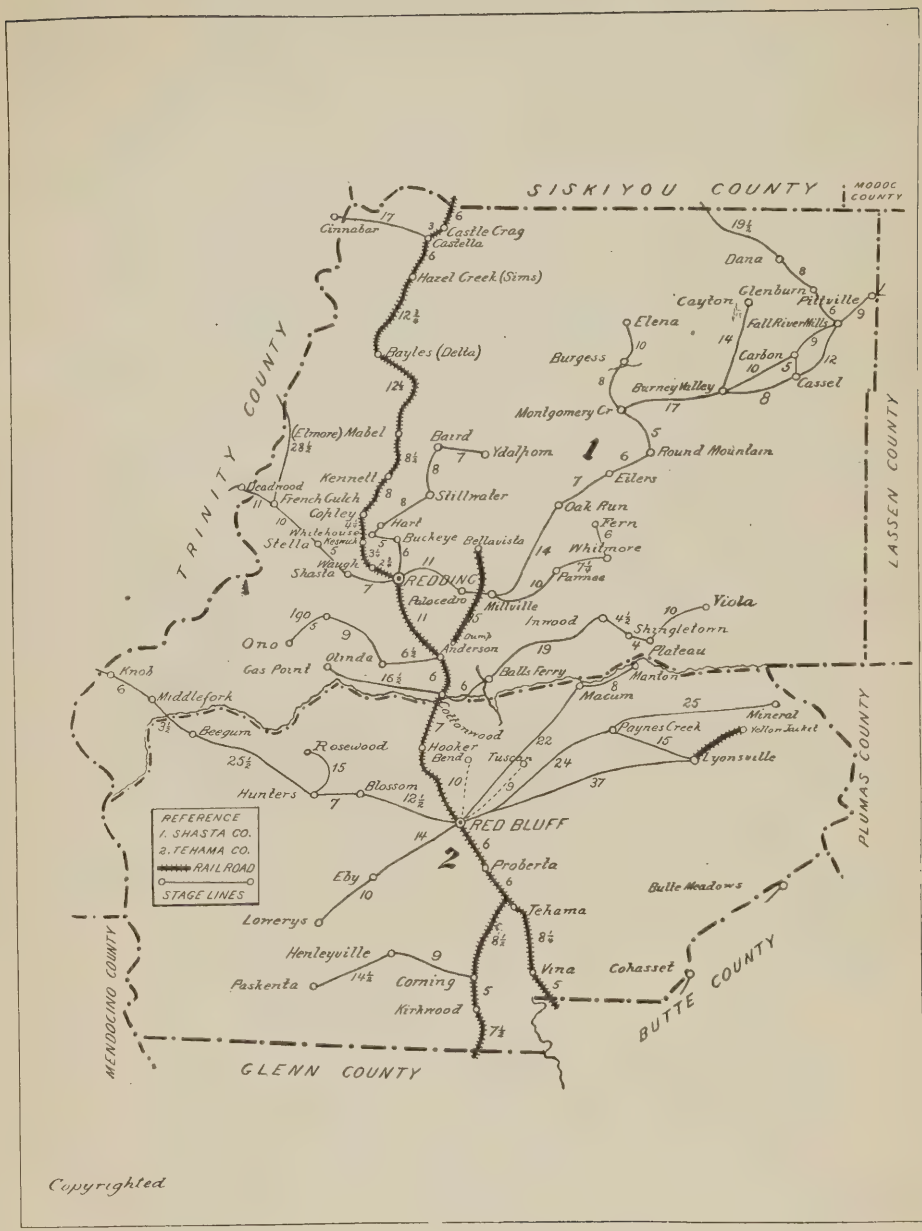
They show all towns, postoffices, railroads, county roads, stage lines carrying passengers, mail and express, and distances between points, forming a handy and useful guide, especially to all who wish to leave the railroad and penetrate to the interior of the mining districts.



MODOC AND LASSEN COUNTIES.



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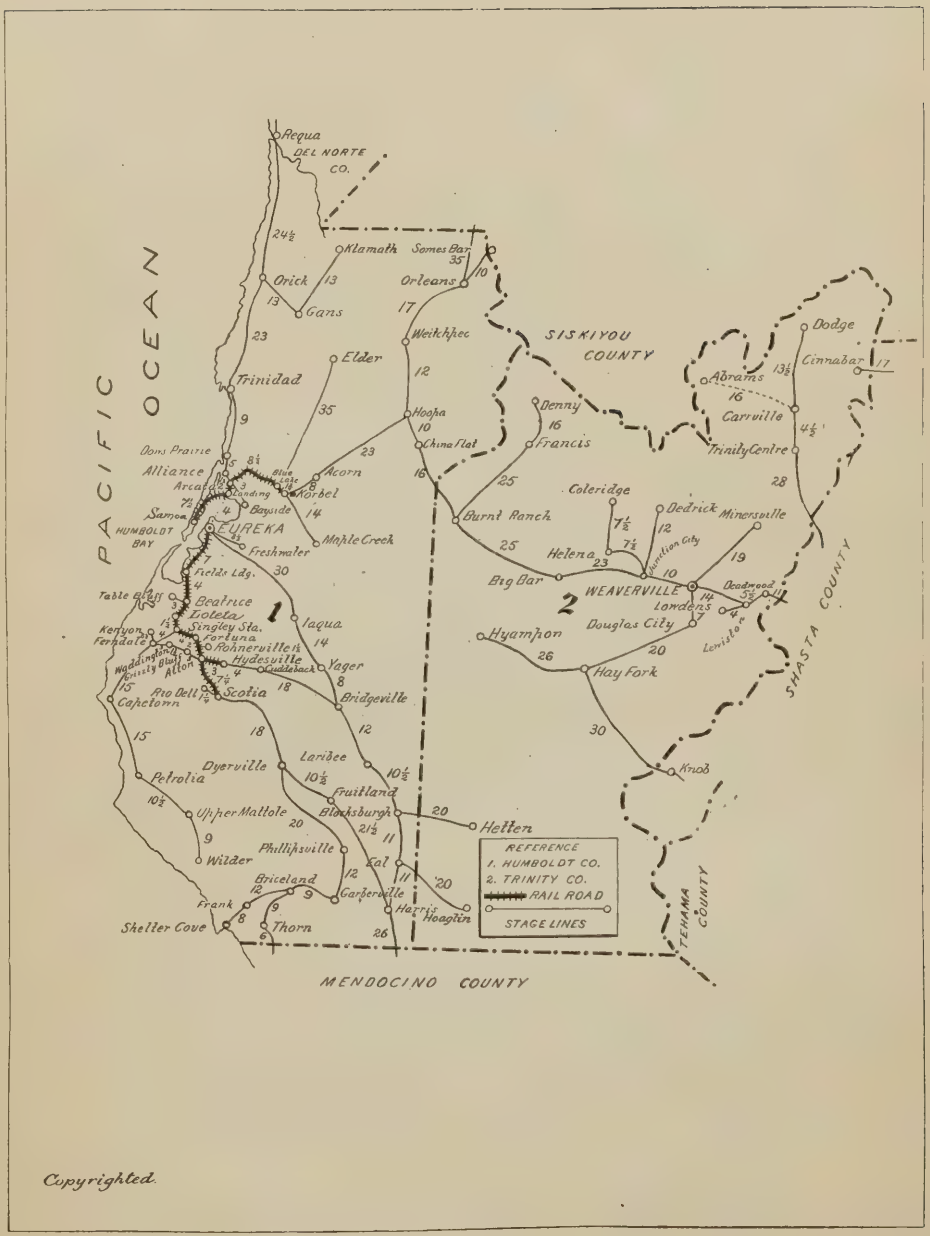
SHASTA AND TEHAMA COUNTIES.



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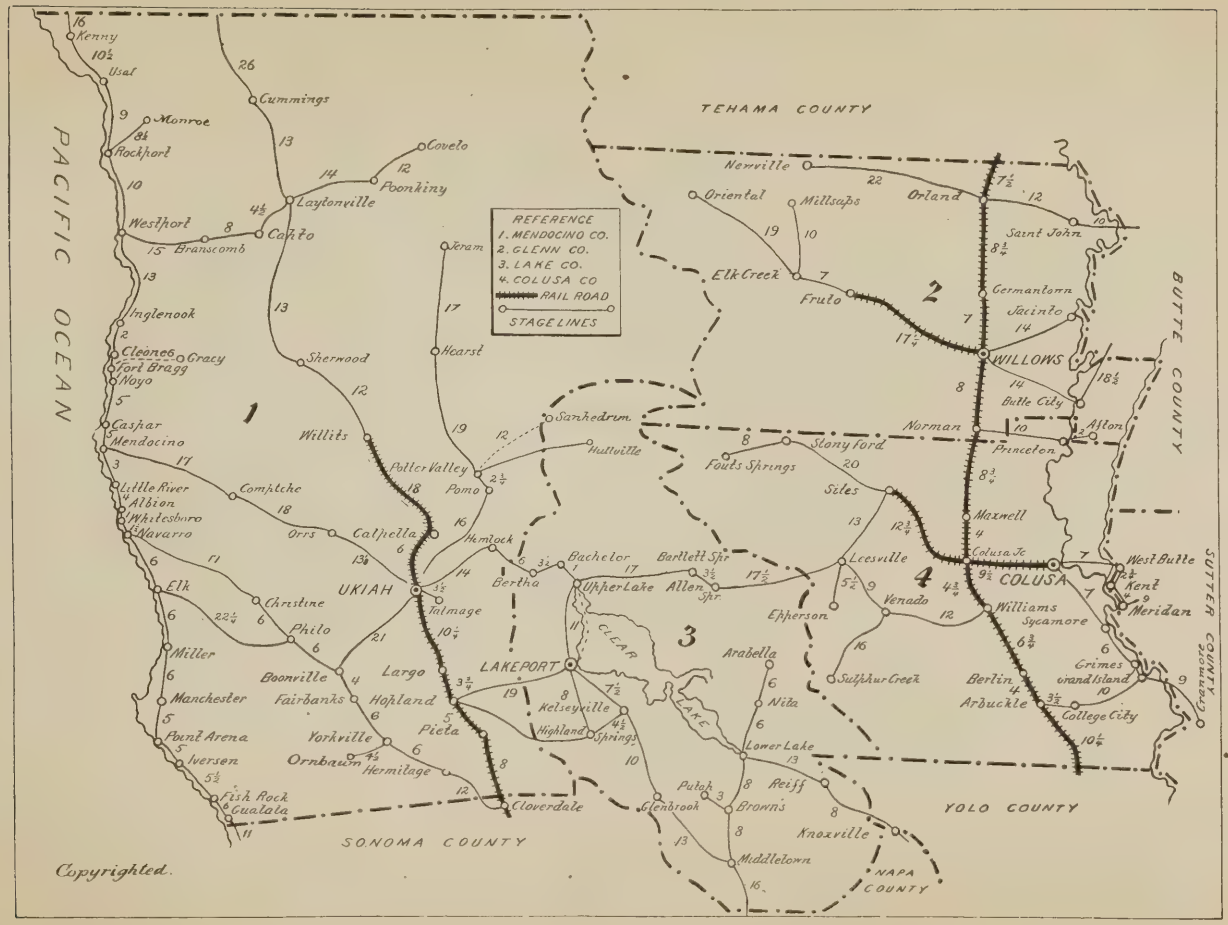
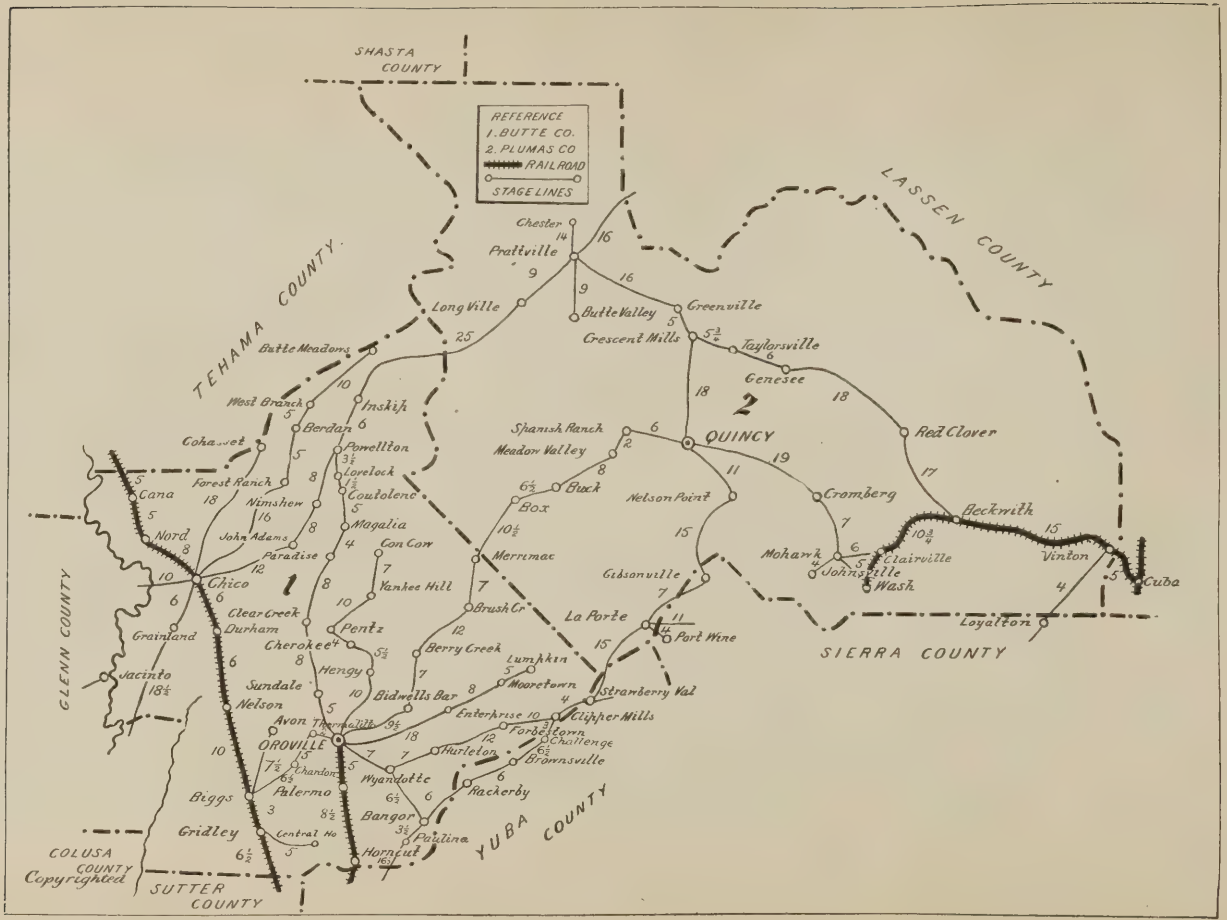
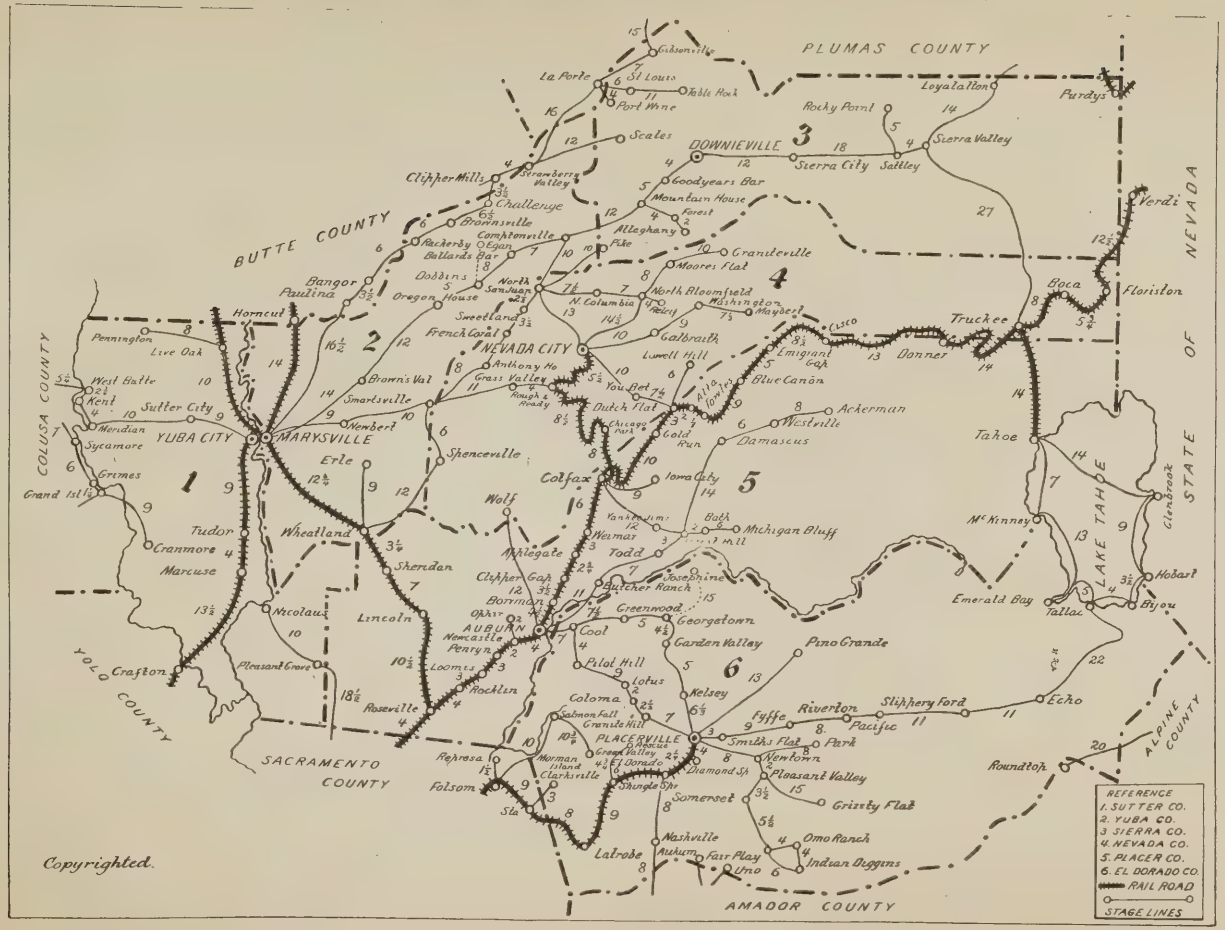
MENDOCINO, GLENN, LAKE, AND COLUSA COUNTIES.



BUTTE AND PLUMAS COUNTIES.

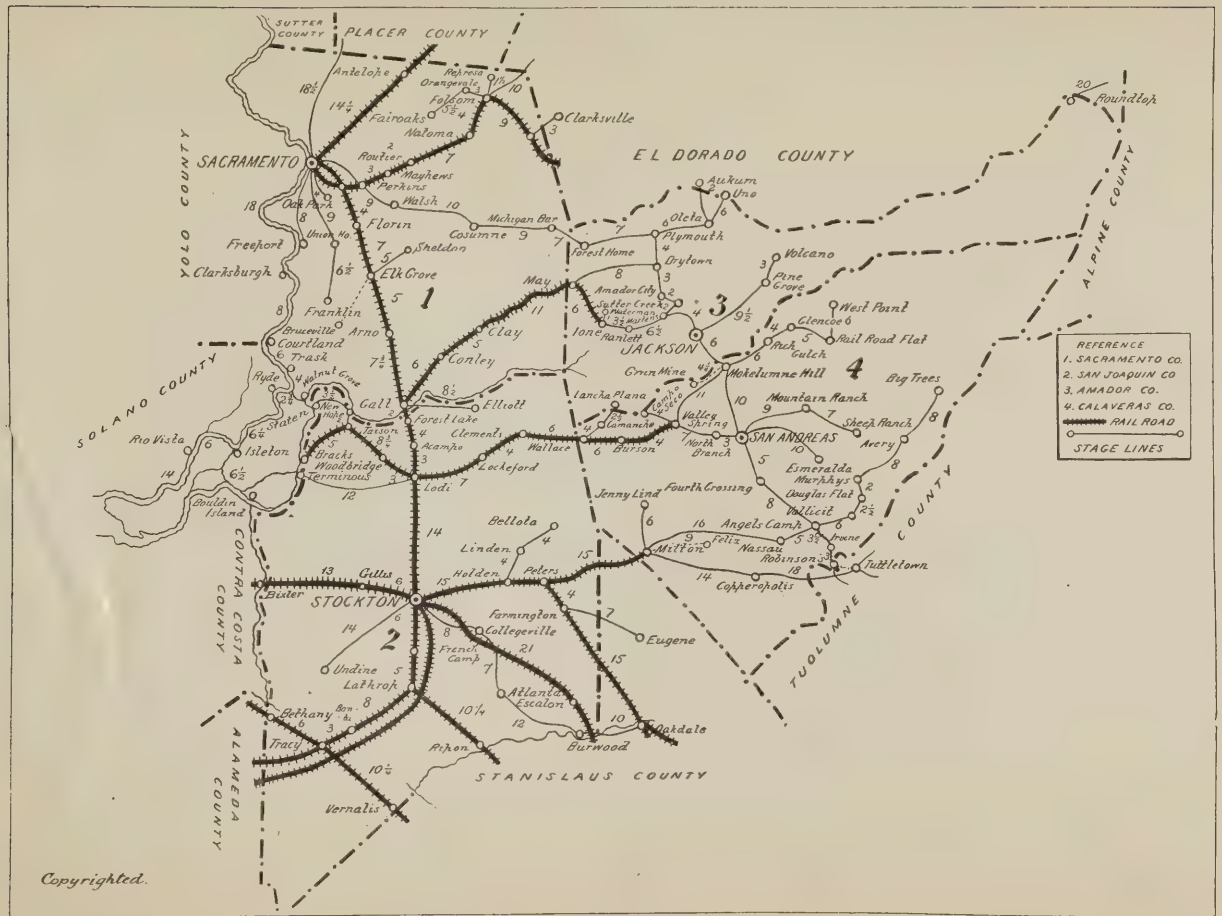


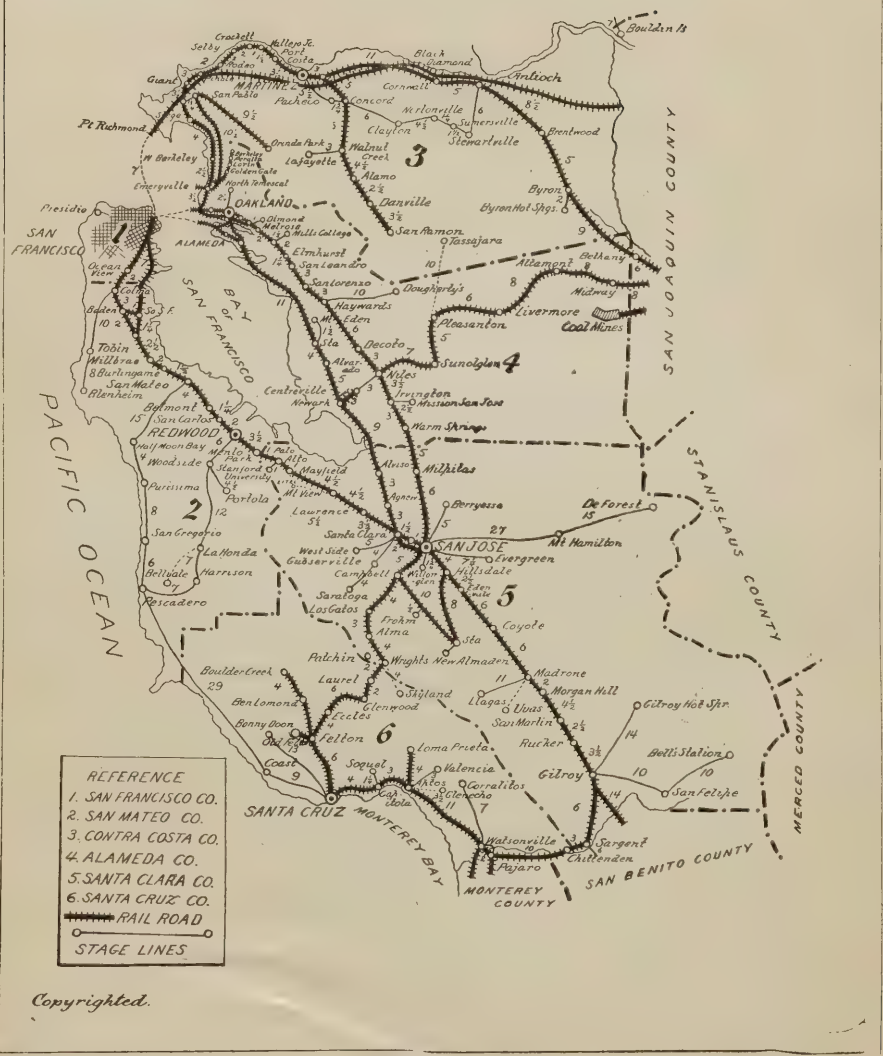
SUTTER, YUBA, SIERRA, NEVADA, PLACER, AND EL DORADO COUNTIES.



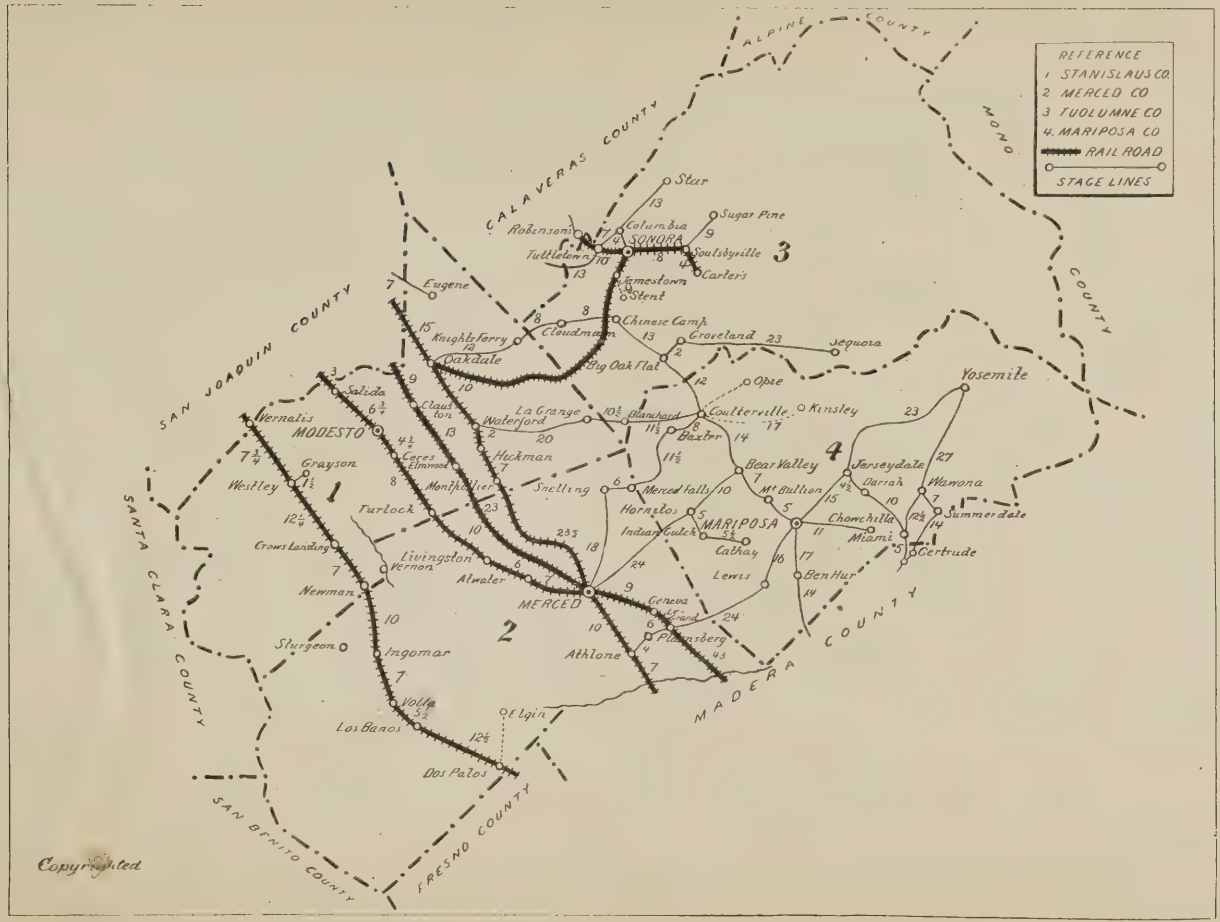
SONOMA, MARIN, NAPA, YOLO, AND SOLANO COUNTIES.

SACRAMENTO, SAN JOAQUIN, AMADOR, AND CALAVERAS COUNTIES.

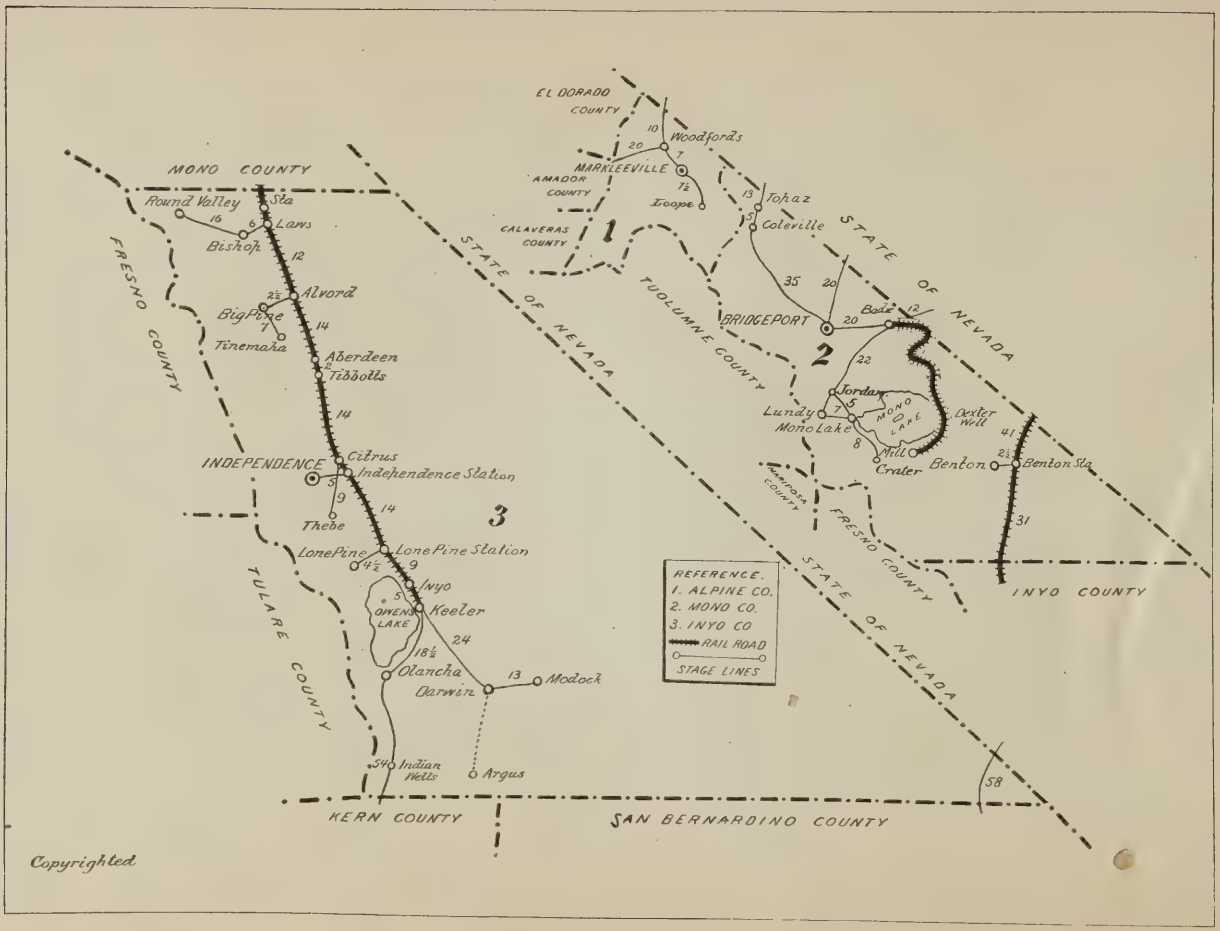



SAN FRANCISCO, SAN MATEO, CONTRA COSTA, ALAMEDA, SANTA CLARA, AND SANTA CRUZ COUNTIES.
PACIFIC OCEAN
SAN FRANCISCO BAY
SAN JOAQUIN COUNTY
STANISLAUS COUNTY
MERCED COUNTY
SAN BENITO COUNTY
MONTEREY COUNTY
SANTA CRUZ
MONTEREY BAY
SAN FRANCISCO
OAKLAND
ALAMEDA
SAN JOSE
REDWOOD
MARTINE
Boulder Pk
Antioch
Black Diamond
Cornwall
Concord
Walnut Creek
Clayton
Martinez
Pacheco
Port Costa
Crockett
Selby
Giant
San Pablo
Pt Richmond
W Berkeley
Emeryville
Presidio
Oakland
Almond
Melrose
Mills College
Elmhurst
San Leandro
Lorenzo
Haywards
Eden
Hills
Decoto
Alvarado
Niles
Centreville
Newark
Irvington
Mission San Jose
Warm Springs
Milpitas
Alviso
Berryessa
De Forest
Mt Hamilton
Evergreen
Hillsdale
Willow Glen
Campbell
West Side
Gubserville
Santa Clara
Agnew
Lawrence
Mt View
Mayfield
Stanford University
Palo Alto
Menlo Park
Woodside
Portola
Purissima
La Honda
Bellvale
Harrison
Pescadero
San Gregorio
Half Moon Bay
San Mateo
Burlingame
Millbrae
Tobin
Baden
S. F.
Colma
Ocean View
Fort Point
Presidio
Sausalito
Tamalpais
Mill Valley
Ross Valley
San Rafael
Novato
Petaluma
Santa Rosa
Sonoma
Glen Ellen
Kenwood
Agua Caliente
Boyes Hot Sprs
Napa
Yountville
Oakville
St Helena
Calistoga
Pope Valley
Lake County
Sonoma County
Napa County
Solano County
Contra Costa County
Alameda County
Santa Clara County
San Mateo County
Marin County
Sacramento County
Yolo County
Colusa County
Lake County
Mendocino

STANISLAUS, MERCED, TUOLUMNE, AND MARIPOSA COUNTIES.

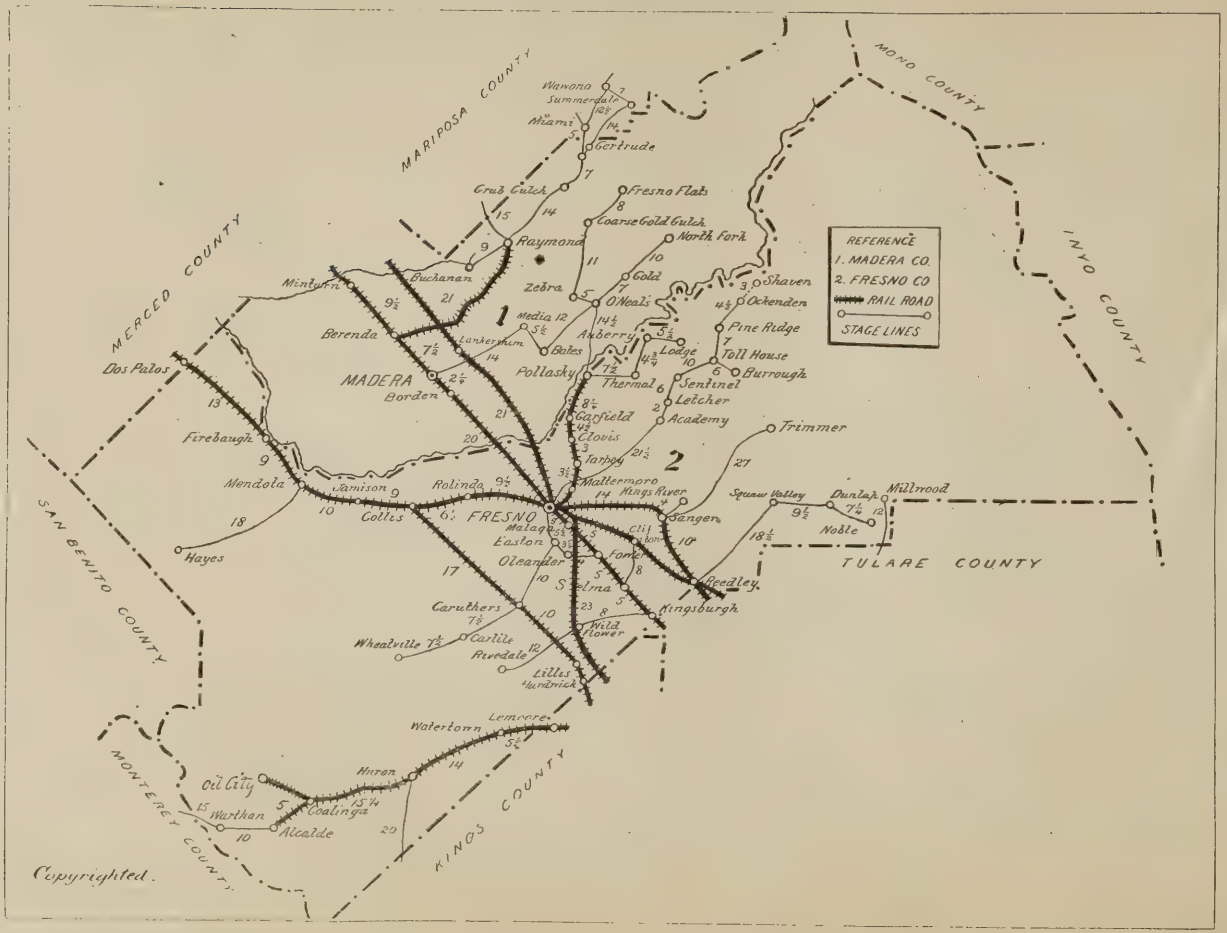


ALPINE, MONO, AND INYO COUNTIES.

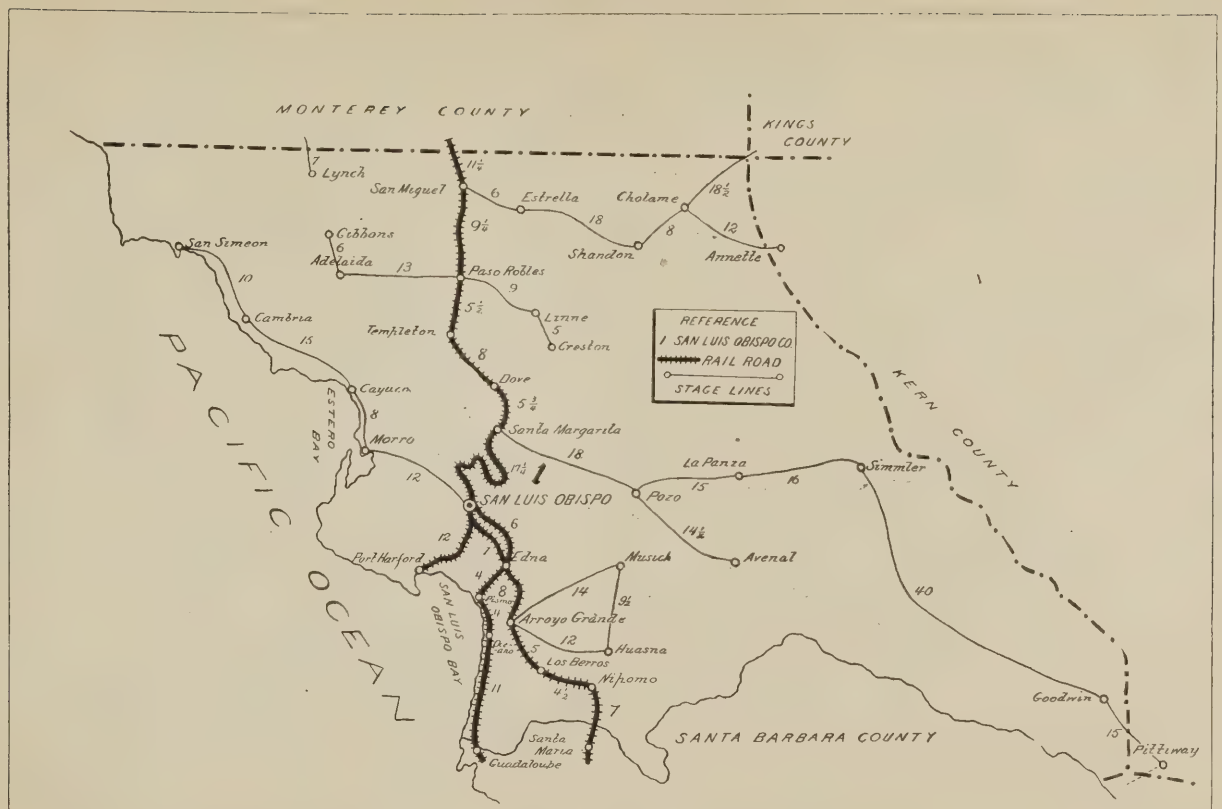


MONTEREY AND SAN BENITO COUNTIES.

MADERA AND FRESNO COUNTIES.



SAN LUIS OBISPO COUNTY.



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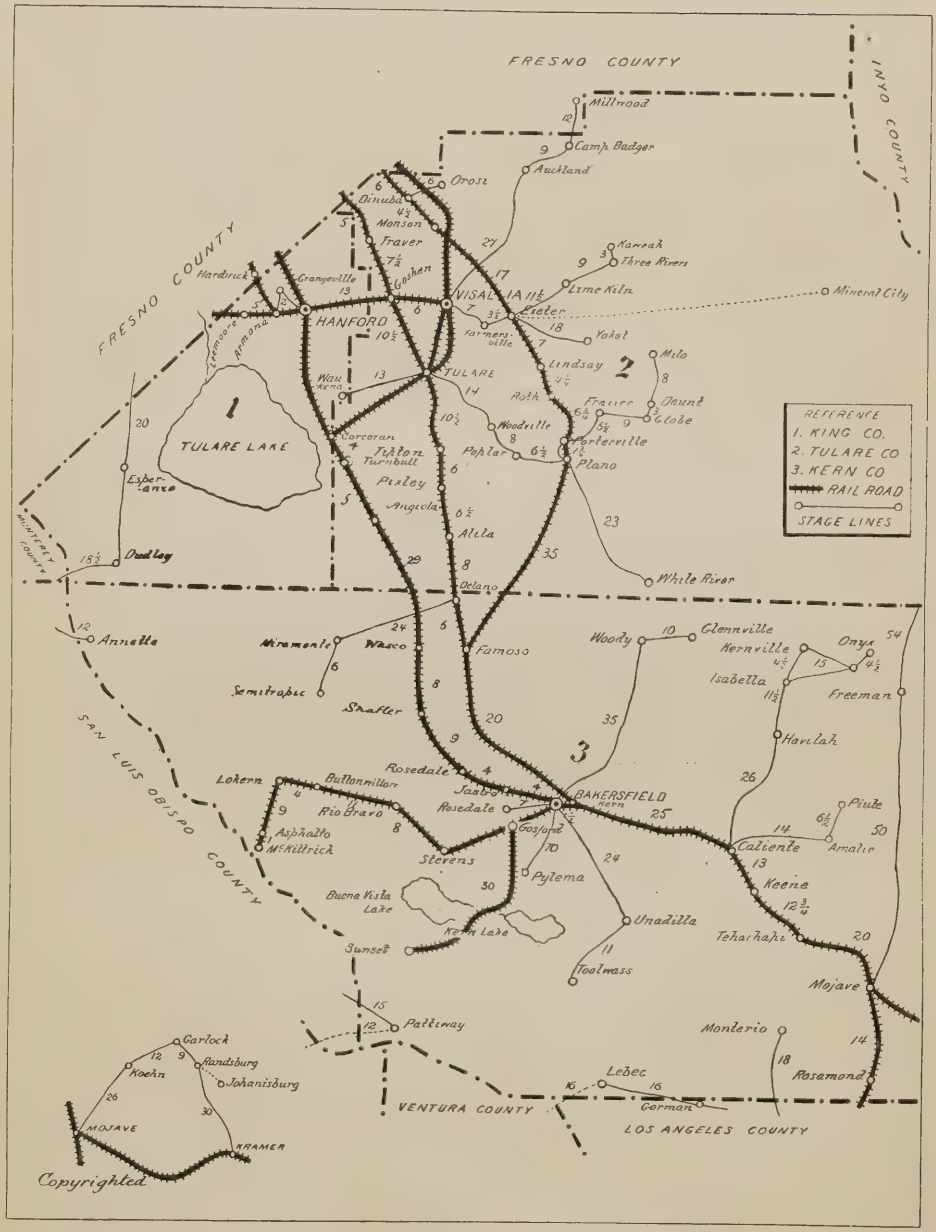
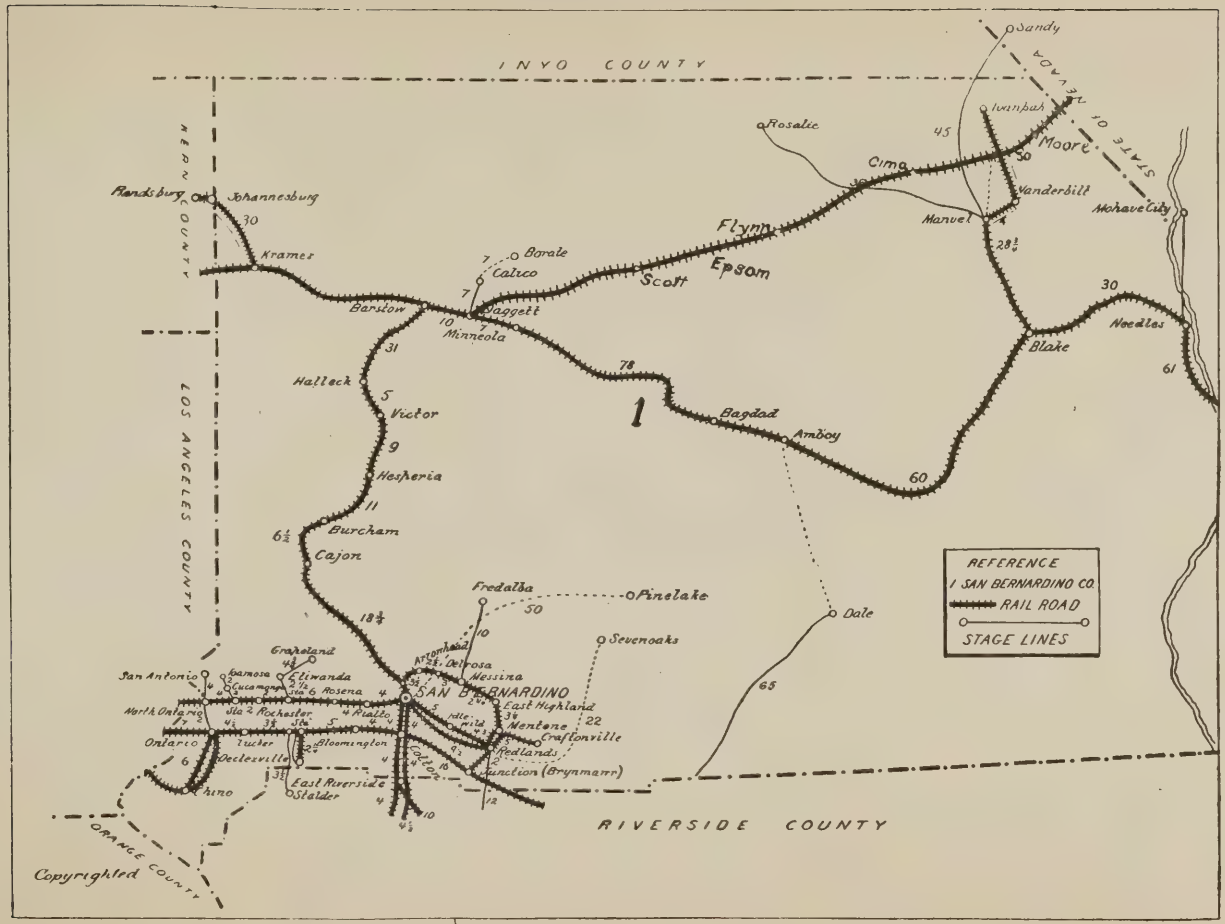
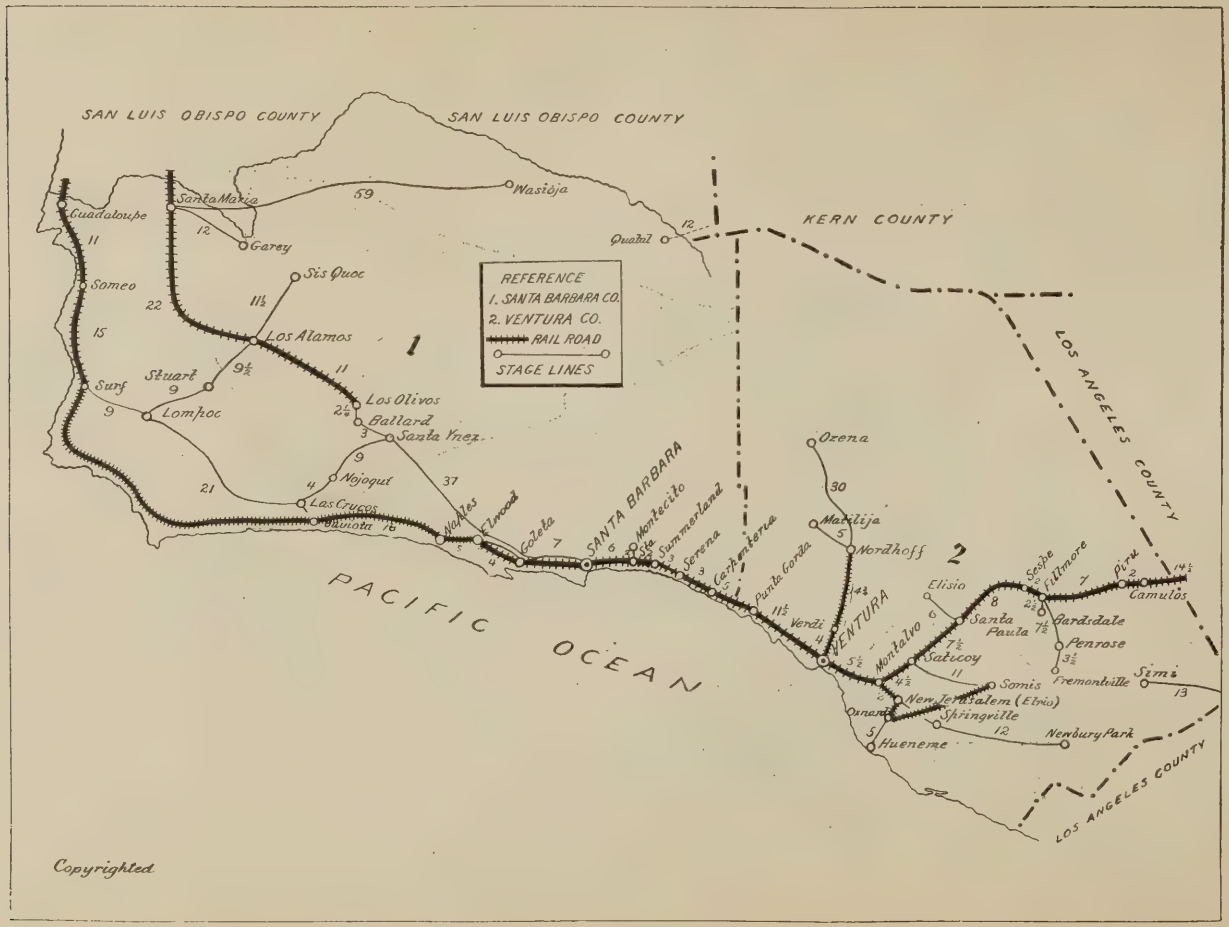


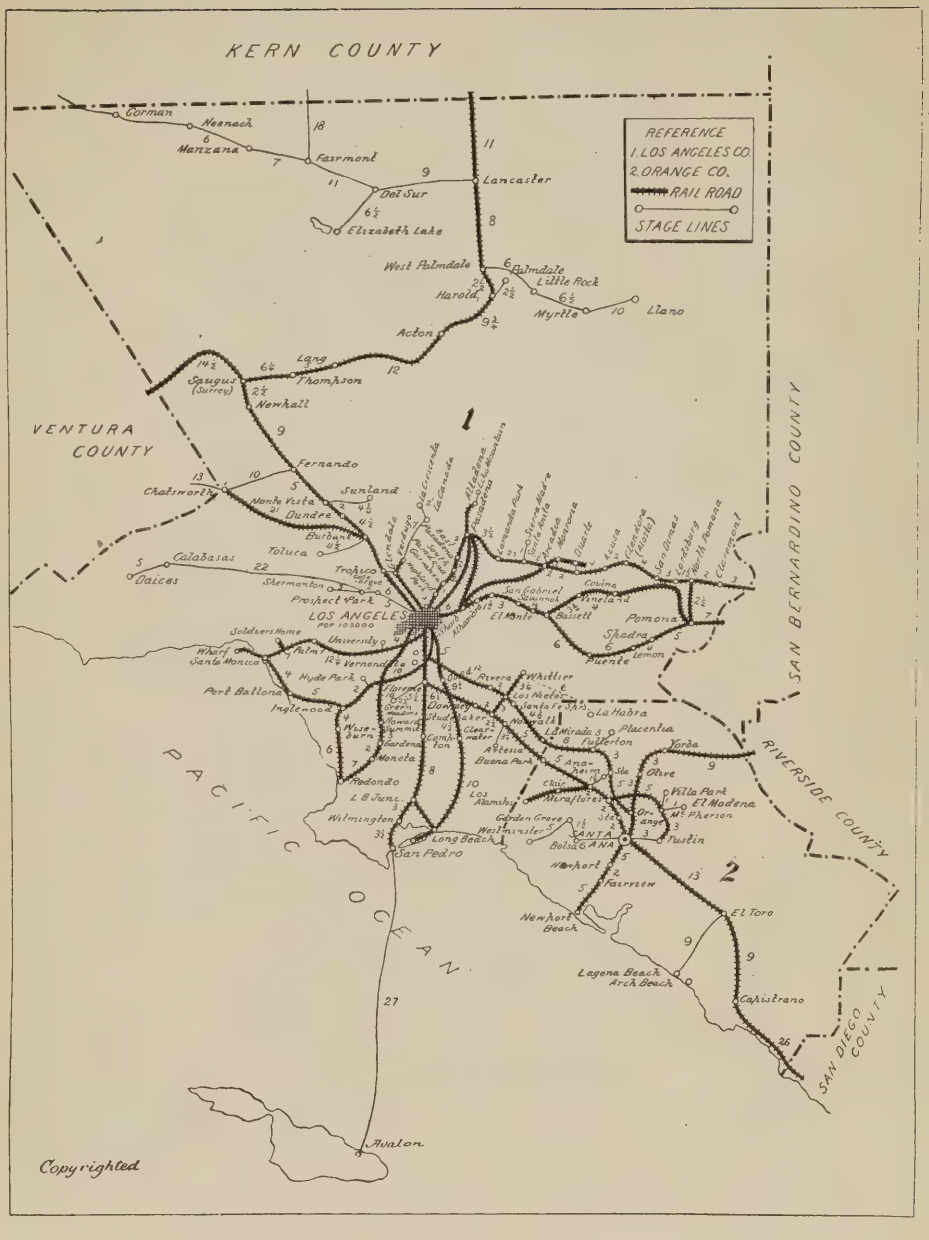
KINGS, TULARE, AND KERN COUNTIES.

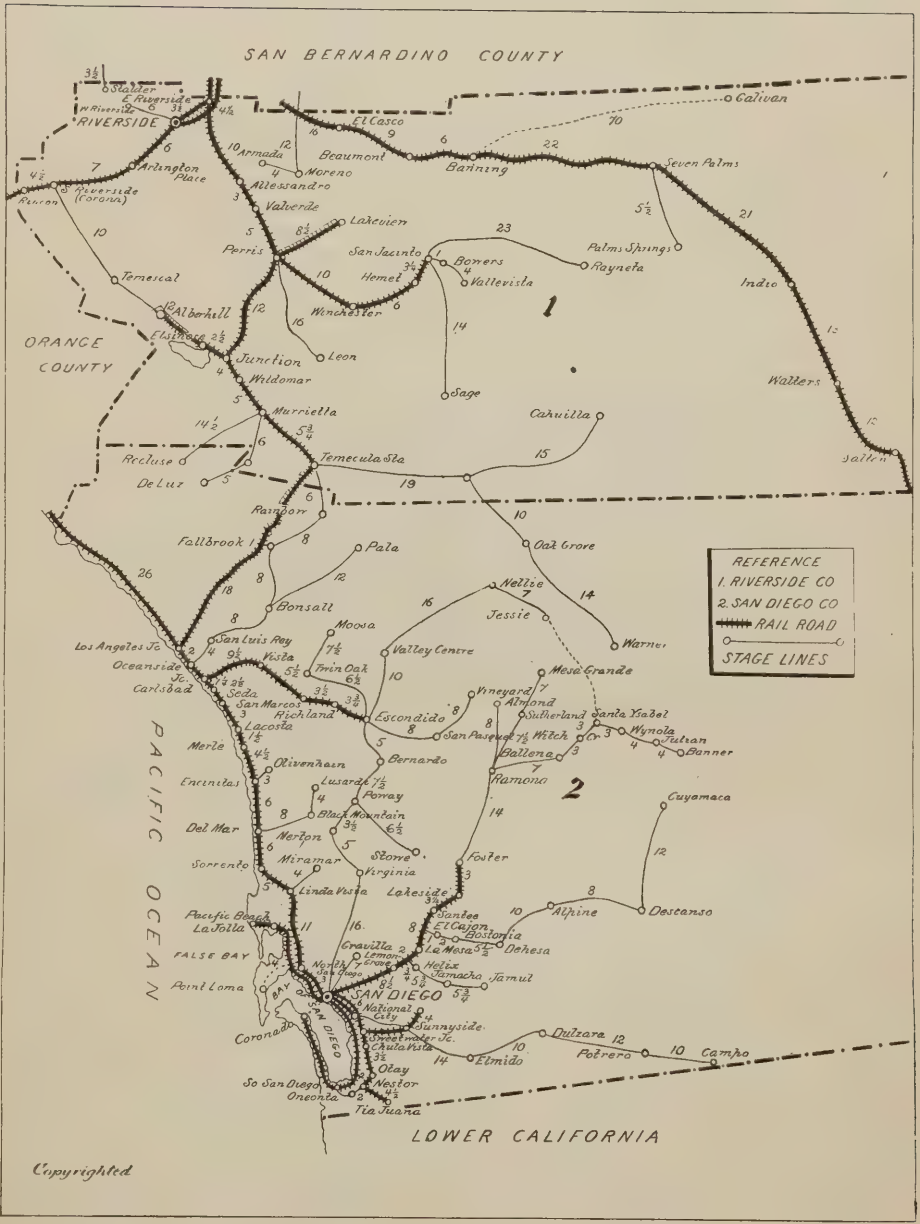
SAN BERNARDINO COUNTY.



SANTA BARBARA AND VENTURA COUNTIES.




KERN COUNTY
REFERENCE
1. LOS ANGELES CO.
2. ORANGE CO.
RAIL ROAD
STAGE LINES
VENTURA COUNTY
SAN BERNARDINO COUNTY
RIVERSIDE COUNTY
SAN DIEGO COUNTY
PACIFIC OCEAN
LOS ANGELES
Corman
Neenach
Mariana
Fairmont
Del Sur
Elizabeth Lake
Lancaster
West Palmdale
Palmdale
Little Rock
Harold
Myrtle
Llano
Acton
Lang
Saugus (Surrey)
Thompson
Newhall
Fernando
Chatsworth
Sunland
Monte Vista
Dundee
Burbank
Toluca
Calabasas
Daices
Tropico
Glendale
Shermanton
Prospect Park
Soldiers Home
University
Palm
Vernon
Wharf
Santa Monica
Hyde Park
Port Ballona
Inglewood
Nuwata
Summit
Gardena
Comp-ton
Moneta
Redondo
L. B. June
Wilmington
Long Beach
San Pedro
Avalon
Rivera
Whittier
Los Nietos
Santa Fe Springs
La Habra
La Mirada
Placentia
Fullerton
Yorba
Buena Park
Anaheim
Olive
Villa Park
El Modena
Mt. Pherson
Orange
Tustin
Garden Grove
Westminster
SANTA ANA
Newport
Fairview
El Toro
Newport Beach
Laguna Beach
Arch Beach
Capistrano
Pomona
Spadra
Puente
Lemon
Basset
El Monte
Covina
Vineland
San Gabriel
Monrovia
Duarte
Azusa
Glendora (North)
San Dimas
Lordsburg
San Pasqual
Claremont
Alhambra
Pasadena
Sierra Madre
Santa Anita
Arcadia
Raymond Park
Altadena
Lamanda
Eagle Rock
Glendale
Tropico
Burbank
Toluca
Trojan



RIVERSIDE AND SAN DIEGO COUNTIES.

LIST OF PUBLICATIONS OF THE CALIFORNIA STATE MINING BUREAU.

FERRY BUILDING, SAN FRANCISCO, CAL.

Publications of this Bureau will be sent on receipt of the price and requisite amount of postage. Only stamps, coin, or money orders will be accepted in payment. *All publications not mentioned are exhausted.*

Under Section 8, amendment to the Mining Bureau Act, approved March 10, 1903, attention is respectfully called to that portion of the amendment which states: "The Board (Board of Trustees) is hereby empowered to fix a price upon, and to dispose of to the public, at such price, any and all publications of the Bureau, including reports, bulletins, maps, registers, etc. The sum derived from such disposition must be accounted for and used as a revolving printing and publishing fund for other reports, bulletins, maps, registers, etc. The prices fixed must approximate the actual cost of printing and issuing the respective reports, bulletins, maps, registers, etc., without reference to the cost of obtaining and preparing the information embraced therein."

	Price.	Postage.
Report XI—1892, First Biennial	$1.00	$0.15
Report XIII—1896, Third Biennial	1.00	.20
Bulletin No. 6—"Gold Mill Practices in California" (3d ed.)	.50	.04
Bulletin No. 9—"Mine Drainage, Pumps, Etc.," Bound	.60	.08
Bulletin No. 15—"Map of Oil City Oil Fields, Fresno County, California"	.05	.02
Bulletin No 16—"Genesis of Petroleum and Asphaltum in California" (3d edition)	.30	.03
Bulletin No. 23—"Copper Resources of California"	.50	.12
Bulletin No. 24—"Saline Deposits of California"	.50	.10
Bulletin No. 27—"Quicksilver Resources of California"	.75	.08
Bulletin No. 30—"Bibliography Relating to the Geology, Palæontology and Mineral Resources of California," including List of Maps	.50	.10
Bulletin No. 31—"Chemical Analysis of California Petroleum"	--	.02
Bulletin No. 32—"Production and Use of California Petroleum."	.75	.08
Bulletin No. 36—"Gold Dredging in California" (2d ed.)	.50	.08
Bulletin No. 37—"Gems and Jewelers' Materials of California" (2d ed.)	.50	.08
Bulletin No. 38—"Structural and Industrial Materials of California"	.75	.20
Bulletin No. 39—"Mineral Production of California"—1904	--	.02
Bulletin No. 41—"Mines and Minerals of California"—1904	--	.04
Bulletin No. 42—"Mineral Production of California"—1905	--	.02
Bulletin No. 43—"Mineral Production of California for Nineteen Years"	--	.02

	Price.	Postage.
Bulletin No. 44—"Mines and Minerals of California"—1905	--	$0.04
Gold Production in California from 1848 to 1906	--	.02
Register of Mines, with map, Amador County	$0.25	.08
Register of Mines, with map, Butte County	.25	.08
Register of Mines, with map, El Dorado County	.25	.08
Register of Mines, with map, Inyo County	.25	.08
Register of Mines, with map, Kern County	.25	.08
Register of Mines, with map, Lake County	.25	.08
Register of Mines, with map, Mariposa County	.25	.08
Register of Mines, with map, Nevada County	.25	.08
Register of Mines, with map, Placer County	.25	.08
Register of Mines, with map, San Bernardino County	.25	.08
Register of Mines, with map, San Diego County	.25	.08
Register of Mines, with map, Santa Barbara County	.25	.08
Register of Mines, with map, Shasta County	.25	.08
Register of Mines, with map, Sierra County	.25	.08
Register of Mines, with map, Siskiyou County	.25	.08
Register of Mines, with map, Tuolumne County	.25	.08
Register of Mines, with map, Trinity County	.25	.08
Register of Mines, with map, Yuba County	.25	.08
Register of Oil Wells, with map, Los Angeles City	.35	.02
Map of Mother Lode	.05	.02
Map of Desert Region of California	.10	.02
Map Showing Copper Deposits in California	.05	.02
Map of Calaveras County	.25	.08
Map of Plumas County	.25	.03
Mineral and Relief Map of California	.25	.05

In Preparation: Map of Forest Reserves in California.

Samples (limited to three at one time) of any mineral found in the State may be sent to the Bureau for identification, and the same will be classified free of charge. It must be understood, however, that *no assays, or quantitative determinations, will be made.* Samples should be in lump form if possible, and marked plainly on outside of package with name of sender, postoffice address, etc. A *letter* should accompany sample, and a *stamp* should be inclosed for reply.

LAW RELATING TO MISREPRESENTATIONS OF MINES BY ANY OFFICER OF A CORPORATION TRANSACTING BUSINESS IN CALIFORNIA. APPROVED MARCH 22, 1905.

SECTION 1. Any superintendent, director, secretary, manager, agent, or other officer, of any corporation formed or existing under the laws of this State, or transacting business in the same, and any person pretending or holding himself out as such superintendent, director, secretary, manager, agent or other officer, who shall willfully subscribe, sign, endorse, verify, or otherwise assent to the publication, either generally or privately, to the stockholders or other persons dealing with such corporation or its stock, any untrue or willfully and fraudulently exaggerated report, prospectus, account, statement of operations, values, business, profits, expenditures or prospects, or other paper or document intended to produce or give, or having a tendency to produce or give, to the shares of stock in such corporation a greater value or less apparent or market value than they really possess, or with the intention of defrauding any particular person or persons, or the public, or persons generally, shall be deemed guilty of a felony, and on conviction thereof shall be punished by imprisonment in State prison, or a county jail, not exceeding two years, or by fine not exceeding five thousand dollars, or by both.

SEC. 2. All acts and parts of acts in conflict with this act are hereby repealed.

UNIVERSITY OF ILLINOIS-URBANA
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